



Current Intelligence Bulletin 1: Chloroprene

DHHS (NIOSH) Publication Number 78-127

January 20, 1975

Introduction

In a letter to Mr. Edward J. Baier, Acting Director, NIOSH, dated December 16, 1974, Dr. John A. Zapp, Director, Haskell Laboratory, E.I. du Pont de Nemours and Company (Du Pont), Wilmington, Delaware, expressed concern over the potential carcinogenicity of chloroprene (2-chlorobutadiene). Du Pont had begun looking closely at this substance recently because of the similarity in chemical structure with vinyl chloride. Du Pont has utilized chloroprene in the production of neoprene (polychloroprene) since 1931.

In the course of a literature search on chloroprene toxicity, Du Pont uncovered two recent Russian articles that suggest an increased incidence of skin and lung cancer in workers exposed to chloroprene. Also, two other articles in the Russian literature were located that described animal experiments in which chloroprene adversely affected embryo development in rats and mice.

Du Pont has informed its employees of the Russian reports and has alerted its customers to the possibility of "escaping chloroprene" during the processing of neoprene. The company is conducting epidemiological studies in humans and animals to ascertain the carcinogenic potential of chloroprene.

Background Information

Chloroprene is a colorless liquid that is slightly soluble in water. It is soluble in alcohol and diethyl ether, and has a vapor density of 3.0, three times that of air, with a boiling point of 59.4°C. Chloroprene is used as a chemical intermediate largely as a monomer for the manufacture of a synthetic rubber.¹ It is a chlorine-substituted derivative of 1,3-butadiene. Chloroprene can polymerize spontaneously at room temperature, the process being catalyzed by light, peroxides and

other free radical initiators. It can also react with oxygen to form polymeric peroxides. Because of its instability, flammability, and toxicity, chloroprene has no end product uses. It is produced in large quantities mainly for polymerization and marketing under the trade name of Neoprene.²

Neoprene was developed in the U.S. by Carothers³ and was originally introduced by Du Pont in 1931 under the brand name Duprene.⁴ Although during recent years other suppliers have come on the market with their own brand name, neoprene is generally used as a generic name for polychloroprene rubbers.

Neoprene is obtained by emulsion polymerization of chloroprene (2-chlorobutadiene) and consists mainly of 1,4-transpolychloroprene. There are two main classes, the sulfur modified type and the nonsulfur modified type, indicating the differences in polymerization techniques. Several subtypes of both are available, differing in viscosity and crystallization rate.⁴

Neoprene's most valuable properties are its resistance to weathering and oil. It is also resistant to abrasion, heat, flame, oxygen, ozone, and solvents. The main applications of neoprene are in high performance articles such as cable sheaths, hoses, fabrics, adhesives, and a large number of technical rubber articles. The automotive industry is the largest consumer of neoprene.

Toxicity

Human

The primary responses to chloroprene appear to be central nervous system depression and significant injury to lungs, liver, and kidneys.¹ Humans exposed to chloroprene have been reported to develop dermatitis, conjunctivitis, corneal necrosis, anemia, temporary loss of hair, nervousness, and irritability.⁶

Two Russian reports suggest that chloroprene exposure is associated with an increased incidence of skin and lung cancer.^{7,8} These studies concern a large-scale epidemiological investigation of industrial workers in the Yerevan region of Russia. During the period 1956-1970, 137 cases of skin cancer were discovered through examination of 24,989 persons over age 25. The population was subdivided into five subgroups according to the character of their employment:

Group I: Persons who never worked in industrial plants

Group II: Persons working in nonchemical industries

Group III: Persons with extended work experience in chloroprene production

Group IV: Persons working in industries using chloroprene derivatives

Group V: Persons working with chemicals unrelated to chloroprene

The following table depicts the results of the study:

	Exposure Group				
	I	II	III	IV	V
Number examined	8520	8755	684	2250	4780
Number of cases	11	35	21	38	32
Percent	0.12	0.40	3.00	1.60	0.66
Average age of cases	72.1	68.9	59.6	59.1	64.4
Average duration of employment cases (in years)	16.3	15.4	9.5	8.7	13.8

As can be seen from the table, the incidence of skin cancer was greatest in the chloroprene exposed group, and was substantially greater than that for the three unexposed groups. Persons exposed only to chloroprene derivatives also showed an increased incidence of skin cancer. A gradient in the skin cancer incidence is seen among the five groups reflecting the potential for exposure to toxic chemicals in the work environment. The average age of the cases in both the chloroprene and chloroprene derivative groups was significantly less than that for the other groups. The average duration of employment was much shorter for the chloroprene and chloroprene derivative groups than for the other nonexposed groups. The investigators concluded that development of chloroprene-induced skin cancer is preceded by chronic dystrophic and inflammatory skin ailments which are caused by the binding of chloroprene to the free SH groups in the cells, with the formation of RS-CH compound types.

The incidence of lung cancer among 19,979 workers in the same region was also studied. During the period 1956-1970, 87 cases of lung cancer were identified from the records of the local oncology department. The population was subdivided into four subgroups according to type of employment:

Group I: Workers who had extended contact with chloroprene and/or its derivatives

Group II: The first "control group" consisting of truck drivers, polishers, cabinet makers, stokers, gasoline station attendants, typesetters, painters, and others

Group III: The second "control group" consisting mainly of electricians, carpenters, joiners, arc welders, tinsmiths, furnace workers, etc.

Group IV: The third "control group" consisting of persons who worked in professional occupations

The following table summarizes the results of the analysis:

	Exposure Group			
	I	II	III	IV
Number at risk	2934	4780	6045	6220

Number of cases	34	22	11	4
Percent	1.16	0.46	0.18	.064
Average age of cases	44.5	54.9	59.3	60.2
Average duration of employment cases (in years)	8.7	10.3	19.9	18.5

As can be seen from the table, the group with exposure to chloroprene or its derivatives experienced the highest incidence of lung cancer. A gradient in the lung cancer incidence is seen according to exposure group which reflects (roughly) the potential for exposure to toxic chemicals in the work environment. As with the results for skin cancer, the average age and duration of employment for the cases in the chloroprene exposure group is substantially less than for the nonchloroprene control groups. It is interesting to note that the average age of the lung cancer cases in the chloroprene group (44.5) is significantly less than the average age of the skin cancer cases in the same group (about 59).

The authors note that the magnitude of the lung cancer risk in chloroprene-exposed workers is about the same as for chromate workers in the same district.

Of the 34 cases of lung cancer in workers exposed to chloroprene or its derivatives, 18 were among persons having direct and prolonged exposure to the chloroprene monomer. The remaining 16 cases were persons whose exposure was to chloroprene latexes. If this breakdown is applied to the two chloroprene subgroups shown in the skin cancer table (Groups III & IV), the lung cancer rates would be 2.6 ($18 \div 684$) for the group with exposure to chloroprene monomer and 0.7 ($16 \div 2,250$) for the group exposed to chloroprene latexes. This difference presumably reflects the gradient in total amount of exposure to chloroprene.

Animal

Animal experiments have shown that a concentration of 250 ppm in air is toxic and a concentration of 75 ppm may be toxic with continued exposure. Exposure to vapor first causes irritation of the respiratory tract, followed by depression of respiration and, if exposure is continued, asphyxia. The vapor is a central nervous system depressant. It causes severe degenerative changes in the vital organs, particularly the liver and kidneys. In addition, blood pressure is lowered and lung changes accompany exposure, especially at the higher concentrations.⁶

Chloroprene has caused hyperplasia of lymph nodes and a decrease in the number of lymphocytes in rats.² During acute and chronic chloroprene exposure, changes in adrenal gland function have also been noted.¹⁰

Even in low concentrations, chloroprene affects male reproductive organs causing degenerative changes resulting in reproduction interferences. Male reproductive organs appear to be more susceptible to the effect of chloroprene than female.¹¹

Chloroprene has an effect on embryogenesis. In rats and mice, it causes an increase in the total embryonal mortality and reduction in the fetal weight of offspring of females exposed during pregnancy.^{12,13}

Permissible Occupational Exposures

The American Conference of Governmental Industrial Hygienists established the threshold limit of chloroprene at 25 ppm (90 mg/m³).¹⁴ This level was based on the work of Cook¹⁵ and Von Oettingen,¹¹ and is the current Occupational Safety and Health Administration, Department of Labor standard.

Priority List Status

Chloroprene is listed as number 412 on the NIOSH Priority List for Criteria Development for Toxic Substances and Physical Agents. An estimated 2,500 workers are exposed to chloroprene in the United States. The severity rating for chloroprene is 325 on a scale of 0 to 6,000.

Producers and Suppliers

The following is a list of the major producers and suppliers of chloroprene and neoprene in the U.S.:

Chloroprene

	Location
Dupont	Victoria, Texas Laplace, Louisiana
Petro-tex Chemical Corp. -tex Chemical Subsid.	Houston, Texas

Neoprene

	Location
Dupont	Laplace, Louisiana Louisville, Kentucky Montague, Michigan*
Petro-tex Chemical Corp. -tex Chemical Subsid.	Houston, Texas

*Shut Down in 1972

[Source: from 1974 Directory of Chemical Producers, USA, Stanford Research Institute, Menlo

Park, California, 1974.]

Annual production figures for chloroprene are not available. Following are the annual figures for neoprene:

Year	Neoprene Production (millions of pounds)
1968	340
1969	350
1970	325
1971	340
1972	370
1973	385

References

1. Patty, F.R.: Industrial Hygiene and Toxicology. Interscience Publishers, New York, Vol. II, pp. 1319-1321, 1963
2. Van Oss, J.F.: Technology: An Encyclopedic Treatment, Barnes and Noble Books, New York, Vol. IV, pp. 211-212, 1972
3. Carothers, W.H., Williams, I., Collins, A.M., Kirby, J.E.: Polymers and Their Derivatives. II. A new synthetic rubber: Chloroprene and its polymers. J. Amer. Chem. Soc., Vol. 53: 4203-4225, 1931
4. Van Oss, J.F.: Technology: An Encyclopedic Treatment, Barnes and Noble Books, New York, Vol. V, pp. 482-483, 1972
5. Number not used.
6. Sax, N.I.: Properties of Industrial Materials. Van Nostrand Reinhold Company, 3rd Edition, p. 567, New York, 1968
7. Khachatryan, E.A.: The role of chloroprene in the process of skin neoplasm formation, Gig. Tr. Prof. Zabol., Vol. 18, pp. 54-55, 1972
8. Khachatryan, E.A.: occurrence of lung cancer among people working with chloroprene. Problems in Oncology, Vol. 18, p. 85, 1972
9. Agakhanyan, A.G., Fridenshtein, A.Y., Allverdyan, A.G.: of chloroprene toxicosis. Zh. Eksp. Klin. Med., Vol. 13, pp. 3-7, 1973
10. Allaverdyan, A.G.: Changes in adrenal glands during acute and chronic chloroprene poisoning. Tr. Klin. Otd. NAUCH., Vol. I, pp. 150-157, 1970
11. Von Oettingen, W.F., Hueper, W.C., Deichmann-Grubler, W., and Wiley, F.H.: 2-Chloro-Butadiene (Chloroprene): Its toxicity and pathology and the mechanism of its action. J. Ind. Hyg. and Toxicology, Vol. 18: 240-270, 1936
12. Salnikova, L.S.: Embryotropic effects of volatile substances given off by polychloroprene latices. Toksikologiya Novykh Promyshlennykh Khimicheskikh Veschestv, No. 11, pp. 106-111, 1968

13. Salnikova, L.S., Fomenko, V.N.: Experimental investigation of the influence of chloroprene on embryogenesis. Gig. Tr. Prof. Zabol., Vol. 8, pp. 23-26, 1973
 14. American Conference of Governmental Industrial Hygienists, Documentation of the Threshold Limit Values for Substances in Workroom Air, 3rd Edition, pp. 54-55, 1971
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Actual Emissions Reported for 2013 to LDEQ

Sum of CD Ipy	Actual
Release Point Description	EIO Point ID N Total
1110-2 JET VENT SCRUBBER	1110-2 0.49
1110-2A DCB STORAGE TANK VENTS (1031)	1110-2A 0.00
	1110-2A.1 0.00
	1110-2A.2 0.00
1110-3 ISOM REACTOR VENT	1110-3 0.54
	1110-3A 0.00
	1110-3B 0.00
	1110-3C 0.00
	1110-3D 0.00
	1110-3E 0.00
	1110-3F 0.00
	1110-3H 0.00
	1110-3I 0.00
1110-4 CD VENT CONDENSER	1110-4 4.71
1110-4B CATALYST SLUDGE RECEIVER	1110-4B 0.18
1117-1 DCB STORAGE TANKS VENT	1117-1 0.00
1140-20 AQUEOUS STORAGE VENT CONDENSER	1140-20 1.06
	1140-20A 0.00
	1140-20B 0.00
	1140-20C 0.00
	1140-20D 0.00
1150-25 EMERGENCY AQUEOUS TANK	1150-25 0.00
1700-1 NO. 7 & 8 EMULSION MANHOLES	1700-1 2.42
1700-13 POLYKETTLE MANHOLE	1700-13 3.27
1700-13A LPK MH/STRAINERS (3,4 & 5)	1700-13A 4.03
1700-14B SOLUTION MAKE UP	1700-14B.3 0.37
1700-2 STRIPPERS COMMON VENT	1700-2 8.66
	1700-2A 0.00
	1700-2B 0.00
	1700-2C 0.00
1700-20 CD REFINING COLUMN JETS	1700-20 5.52
1700-20A CD REFINING COLUMN JET SPARE	1700-20A 5.52
1700-21A 2MMLB CD STORAGE TANK	1700-21A 4.70
1700-25 EAST WASH BELT DRYER	1700-25 2.32
1700-26 WEST WASH BELT DRYER	1700-26 2.32
1700-27 EAST HOT DRYER	1700-27 11.88
1700-28 WEST HOT DRYER	1700-28 11.88
1700-3 POLY KETTLES COMMON VENT	1700-3 22.02
	1700-3A 0.00
	1700-3B 0.00
	1700-3C 0.00
	1700-3D 0.00
	1700-3E 0.00
1700-45 #1 EAST COOLING COMPARTMENT	1700-45 0.00
1700-46 #1 WEST COOLING COMPARTMENT	1700-46 0.00
1700-47 #2 EAST COOLING COMPARTMENT	1700-47 0.00
1700-48 #2 WEST COOLING COMPARTMENT	1700-48 0.00
1700-5 EMUL STORAGE TANKS 4,5,6,7, & 8	1700-5 2.42
	1700-5.3 0.00
	1700-5.4 0.00
	1700-5.5 0.00
	1700-5.6 0.00
	1700-5.7 0.00
	1700-5.8 0.00
1700-51 INHIBITOR MIX TANK	1700-51 0.68
1700-53 STRIPPED EMULSION TANK #1	1700-53 0.00
1700-54 STRIPPED EMULSION TANK #2	1700-54 0.00
1700-55 STRIPPED EMULSION TANK #3	1700-55 0.00
1700-56 UNSTRIPPED TANKS DEPRESS. VENT	1700-56 1.84
1700-5A NO. 6 EMUL STORAGE TANK MANHOLE	1700-5A 0.84
1700-63 1712 COMMON VENT HEADER	1700-63 1.89
	1700-63.1 0.00
	1700-63.10 0.00
	1700-63.11 0.00
	1700-63.2 0.00
	1700-63.3 0.00
	1700-63.4 0.00
	1700-63.5 0.00
	1700-63.8 0.00
	1700-63.9 0.00
1700-64 WATER SOLUTION MH FAN	1700-64 0.08
1700-66 BUILDING EXHAUST FAN	1700-66 15.83
1700-67 STRIPPED EMULSION TANK #4	1700-67 0.00
1700-68 STRIPPED EMULSION TANK #5	1700-68 0.00
1700-69 STRIPPED EMULSION TANK #9	1700-69 0.00
1700-70 STRIPPED EMULSION TANK #11	1700-70 0.00
1700-71 STRIPPED EMULSION TANK #12	1700-71 0.00
1700-72 STRIPPED EMULSION TANK #15	1700-72 0.00
1700-73 STRIPPED EMULSION TANK #16	1700-73 0.00
1-93 FUGITIVE EMISSIONS NEOPRENE UNIT	1-93 2.13
1-96 WASTE LOADING VENT	1-96 0.01
2-74 WASTE STORAGE TANKS	2-74 0.87
	2-74.1 0.00
	2-74.2 0.00
	2-74.3 0.00
	2-74.4 0.00
	2-74.5 0.00
	2-74.6 0.00
3-91 FUGITIVE EMISSIONS CHLOROPRENE UNIT	3-91 0.55
3-95 DIVERSION TANK	3-95 0.00
3-96 HCL UNIT FUGITIVE EMISSIONS	3-96 0.03
4-95 NO. 1 AERATION TANK	4-95 2.17
5-95 NO. 2 AERATION TANK	5-95 0.03
7000-10A FLARE STACK	7000-10A 0.01
7000-15 HCL RECOVERY UNIT	7000-15 0.02
7000-17 HCL FEED TANKS	7000-17 1.11
	7000-17.1 0.00
	7000-17.2 0.00
CHLOROPRENE UNIT GC XVII	(blank) 1.85
HCL UNI GC XVII	(blank) 0.18
NEOPRENE UNIT GC XVII	(blank) 1.40
UNAUTHORIZED DISCHARGE - CHLOROPRENE UNIT	(blank) 0.00
UNAUTHORIZED DISCHARGE - NEOPRENE UNIT	(blank) 0.09
Grand Total	125.76

Actual Emissions Reported for 2013 to LDEQ

Sum of CD Ipy	Actual
Release Point Description	EIO Point ID N Total
1110-2 JET VENT SCRUBBER	1110-2 0.49
1110-2A DCB STORAGE TANK VENTS (1031)	1110-2A 0.00
	1110-2A.1 0.00
	1110-2A.2 0.00
1110-3 ISOM REACTOR VENT	1110-3 0.54
	1110-3A 0.00
	1110-3B 0.00
	1110-3C 0.00
	1110-3D 0.00
	1110-3E 0.00
	1110-3F 0.00
	1110-3H 0.00
	1110-3I 0.00
1110-4 CD VENT CONDENSER	1110-4 4.71
1110-4B CATALYST SLUDGE RECEIVER	1110-4B 0.18
1117-1 DCB STORAGE TANKS VENT	1117-1 0.00
1140-20 AQUEOUS STORAGE VENT CONDENSER	1140-20 1.06
	1140-20A 0.00
	1140-20B 0.00
	1140-20C 0.00
	1140-20D 0.00
1150-25 EMERGENCY AQUEOUS TANK	1150-25 0.00
1700-1 NO. 7 & 8 EMULSION MANHOLES	1700-1 2.42
1700-13 POLYKETTLE MANHOLE	1700-13 3.27
1700-13A LPK MH/STRAINERS (3,4 & 5)	1700-13A 4.03
1700-14B SOLUTION MAKE UP	1700-14B.3 0.37
1700-2 STRIPPERS COMMON VENT	1700-2 8.66
	1700-2A 0.00
	1700-2B 0.00
	1700-2C 0.00
1700-20 CD REFINING COLUMN JETS	1700-20 5.52
1700-20A CD REFINING COLUMN JET SPARE	1700-20A 5.52
1700-21A 2MMLB CD STORAGE TANK	1700-21A 4.70
1700-25 EAST WASH BELT DRYER	1700-25 2.32
1700-26 WEST WASH BELT DRYER	1700-26 2.32
1700-27 EAST HOT DRYER	1700-27 11.88
1700-28 WEST HOT DRYER	1700-28 11.88
1700-3 POLY KETTLES COMMON VENT	1700-3 22.02
	1700-3A 0.00
	1700-3B 0.00
	1700-3C 0.00
	1700-3D 0.00
	1700-3E 0.00
1700-45 #1 EAST COOLING COMPARTMENT	1700-45 0.00
1700-46 #1 WEST COOLING COMPARTMENT	1700-46 0.00
1700-47 #2 EAST COOLING COMPARTMENT	1700-47 0.00
1700-48 #2 WEST COOLING COMPARTMENT	1700-48 0.00
1700-5 EMUL STORAGE TANKS 4,5,6,7, & 8	1700-5 2.42
	1700-5.3 0.00
	1700-5.4 0.00
	1700-5.5 0.00
	1700-5.6 0.00
	1700-5.7 0.00
	1700-5.8 0.00
1700-51 INHIBITOR MIX TANK	1700-51 0.68
1700-53 STRIPPED EMULSION TANK #1	1700-53 0.00
1700-54 STRIPPED EMULSION TANK #2	1700-54 0.00
1700-55 STRIPPED EMULSION TANK #3	1700-55 0.00
1700-56 UNSTRIPPED TANKS DEPRESS. VENT	1700-56 1.84
1700-5A NO. 6 EMUL STORAGE TANK MANHOLE	1700-5A 0.84
1700-63 1712 COMMON VENT HEADER	1700-63 1.89
	1700-63.1 0.00
	1700-63.10 0.00
	1700-63.11 0.00
	1700-63.2 0.00
	1700-63.3 0.00
	1700-63.4 0.00
	1700-63.5 0.00
	1700-63.8 0.00
	1700-63.9 0.00
1700-64 WATER SOLUTION MH FAN	1700-64 0.08
1700-66 BUILDING EXHAUST FAN	1700-66 15.83
1700-67 STRIPPED EMULSION TANK #4	1700-67 0.00
1700-68 STRIPPED EMULSION TANK #5	1700-68 0.00
1700-69 STRIPPED EMULSION TANK #9	1700-69 0.00
1700-70 STRIPPED EMULSION TANK #11	1700-70 0.00
1700-71 STRIPPED EMULSION TANK #12	1700-71 0.00
1700-72 STRIPPED EMULSION TANK #15	1700-72 0.00
1700-73 STRIPPED EMULSION TANK #16	1700-73 0.00
1-93 FUGITIVE EMISSIONS NEOPRENE UNIT	1-93 2.13
1-96 WASTE LOADING VENT	1-96 0.01
2-74 WASTE STORAGE TANKS	2-74 0.87
	2-74.1 0.00
	2-74.2 0.00
	2-74.3 0.00
	2-74.4 0.00
	2-74.5 0.00
	2-74.6 0.00
3-91 FUGITIVE EMISSIONS CHLOROPRENE UNIT	3-91 0.55
3-95 DIVERSION TANK	3-95 0.00
3-96 HCL UNIT FUGITIVE EMISSIONS	3-96 0.03
4-95 NO. 1 AERATION TANK	4-95 2.17
5-95 NO. 2 AERATION TANK	5-95 0.03
7000-10A FLARE STACK	7000-10A 0.01
7000-15 HCL RECOVERY UNIT	7000-15 0.02
7000-17 HCL FEED TANKS	7000-17 1.11
	7000-17.1 0.00
	7000-17.2 0.00
CHLOROPRENE UNIT GC XVII	(blank) 1.85
HCL UNI GC XVII	(blank) 0.18
NEOPRENE UNIT GC XVII	(blank) 1.40
UNAUTHORIZED DISCHARGE - CHLOROPRENE UNIT	(blank) 0.00
UNAUTHORIZED DISCHARGE - NEOPRENE UNIT	(blank) 0.09
Grand Total	125.76

Average Annual Incidence of the Major Cancers in St. John the Baptist Parish, Louisiana, and the U.S.

Age-adjusted Rates per 100,000: Invasive Cancers Only

	White Males			White Females			Black Males			Black Females		
	U.S. *	Louisiana	St. John	U.S. *	Louisiana	St. John	U.S. *	Louisiana	St. John	U.S. *	Louisiana	St. John
All cancers	536.9	578.0 ↑	518.8 #	424.2	411.7 ↓	396.2	616.6	662.3 ↑	644.0	402.5	411.2 ↑	397.2
Oral cavity & pharynx	16.8	20.0 ↑	21.3	6.3	6.6	^	15.4	18.4 ↑	16.6	5.5	5.7	^
Esophagus	8.0	8.8 ↑	^	1.8	1.7	^	8.6	9.5	^	2.8	2.6	^
Stomach	9.4	8.4 ↓	^	4.6	3.9 ↓	^	15.9	19.9 ↑	26.6	8.5	10.2 ↑	^
Colorectum	51.8	59.6 ↑	54.7	38.7	41.2 ↑	44.4	65.5	74.6 ↑	70.0	49.6	53.4 ↑	47.5
Liver	10.3	10.4	^	3.4	3.0 ↓	^	15.1	16.6 ↑	^	4.5	4.3	^
Pancreas	13.7	14.3	14.2	10.6	11.2 ↑	^	17.2	16.6	^	14.6	14.4	^
Larynx	6.0	8.7 ↑	^	1.3	2.1 ↑	0.0	9.6	12.7 ↑	^	1.8	2.2 ↑	^
Lung and Bronchus	74.6	95.9 ↑	88.2	54.2	59.9 ↑	42.8 #	96.8	118.2 ↑	97.5	52.3	52.0	56.9
Melanoma of the Skin	32.0	25.7 ↓	20.5	19.9	14.8 ↓	^	1.2	1.3	0.0	1.1	0.9	0.0
Breast	1.2	1.2	^	127.5	119.4 ↓	130.2	1.7	1.7	0.0	122.5	126.1 ↑	121.1
Cervix Uteri	~	~	~	7.9	8.2	^	~	~	~	9.8	12.4 ↑	^
Uterus	~	~	~	25.0	17.3 ↓	16.0	~	~	~	22.4	19.8 ↓	16.1
Ovary	~	~	~	13.2	10.9 ↓	^	~	~	~	10.1	9.5	^
Prostate	141.5	148.6 ↑	111.2 #	~	~	~	229.1	229.7	221.7	~	~	~
Testis	6.6	5.8 ↓	^	~	~	~	1.4	1.6	^	~	~	~
Urinary Bladder	40.1	39.0 ↓	38.2	9.7	9.1 ↓	^	21.5	20.5	^	~	~	~
Kidney & Renal Pelvis	21.0	26.4 ↑	27.0	10.8	14.8 ↑	16.0	23.9	25.1	20.7	11.9	14.1 ↑	^
Brain & other nervous s	8.5	7.9 ↓	^	6.0	5.7	^	4.8	4.9	^	3.6	3.4	^
Thyroid	6.4	6.2	^	18.7	17.1 ↓	^	3.2	2.4	^	10.5	9.8	^
Hodgkin lymphoma	3.3	3.5	^	2.6	2.7	^	3.0	2.8	^	2.3	2.2	^
Non-Hodgkin lymphoma	25.0	26.0 ↑	29.4	17.3	18.4 ↑	14.3	18.0	17.9	23.8	12.1	11.9	^
Myeloma	7.2	6.5 ↓	^	4.4	3.9 ↓	^	15.1	15.2	^	10.8	10.4	^
Leukemia	17.9	17.3	19.5	10.8	10.5	^	13.6	12.9 ↓	^	8.5	8.3	^

*U.S. rates from the Surveillance, Epidemiology and End Results (SEER) Program of the National Cancer Institute

^ Rates are not generated for counts smaller than 16 over the ten-year period.

~ Not applicable

The Louisiana Tumor Registry is supported by the SEER Program, National Program of Cancer Registries (CDC), & LSUHSC-New Orleans.

↑ ↓ Louisiana rate is significantly higher or lower than the U.S. (SEER) rate.

Parish rate is significantly lower than the Louisiana rate.

Average Annual Incidence of the Major Cancers in St. John the Baptist Parish, Louisiana, and the U.S.

Age-adjusted Rates per 100,000: Invasive Cancers Only

	White Males			White Females			Black Males			Black Females		
	U.S. *	Louisiana	St. John	U.S. *	Louisiana	St. John	U.S. *	Louisiana	St. John	U.S. *	Louisiana	St. John
All cancers	536.9	578.0 ↑	518.8 #	424.2	411.7 ↓	396.2	616.6	662.3 ↑	644.0	402.5	411.2 ↑	397.2
Oral cavity & pharynx	16.8	20.0 ↑	21.3	6.3	6.6	^	15.4	18.4 ↑	16.6	5.5	5.7	^
Esophagus	8.0	8.8 ↑	^	1.8	1.7	^	8.6	9.5	^	2.8	2.6	^
Stomach	9.4	8.4 ↓	^	4.6	3.9 ↓	^	15.9	19.9 ↑	26.6	8.5	10.2 ↑	^
Colorectum	51.8	59.6 ↑	54.7	38.7	41.2 ↑	44.4	65.5	74.6 ↑	70.0	49.6	53.4 ↑	47.5
Liver	10.3	10.4	^	3.4	3.0 ↓	^	15.1	16.6 ↑	^	4.5	4.3	^
Pancreas	13.7	14.3	14.2	10.6	11.2 ↑	^	17.2	16.6	^	14.6	14.4	^
Larynx	6.0	8.7 ↑	^	1.3	2.1 ↑	0.0	9.6	12.7 ↑	^	1.8	2.2 ↑	^
Lung and Bronchus	74.6	95.9 ↑	88.2	54.2	59.9 ↑	42.8 #	96.8	118.2 ↑	97.5	52.3	52.0	56.9
Melanoma of the Skin	32.0	25.7 ↓	20.5	19.9	14.8 ↓	^	1.2	1.3	0.0	1.1	0.9	0.0
Breast	1.2	1.2	^	127.5	119.4 ↓	130.2	1.7	1.7	0.0	122.5	126.1 ↑	121.1
Cervix Uteri	~	~	~	7.9	8.2	^	~	~	~	9.8	12.4 ↑	^
Uterus	~	~	~	25.0	17.3 ↓	16.0	~	~	~	22.4	19.8 ↓	16.1
Ovary	~	~	~	13.2	10.9 ↓	^	~	~	~	10.1	9.5	^
Prostate	141.5	148.6 ↑	111.2 #	~	~	~	229.1	229.7	221.7	~	~	~
Testis	6.6	5.8 ↓	^	~	~	~	1.4	1.6	^	~	~	~
Urinary Bladder	40.1	39.0 ↓	38.2	9.7	9.1 ↓	^	21.5	20.5	^	~	~	~
Kidney & Renal Pelvis	21.0	26.4 ↑	27.0	10.8	14.8 ↑	16.0	23.9	25.1	20.7	11.9	14.1 ↑	^
Brain & other nervous s	8.5	7.9 ↓	^	6.0	5.7	^	4.8	4.9	^	3.6	3.4	^
Thyroid	6.4	6.2	^	18.7	17.1 ↓	^	3.2	2.4	^	10.5	9.8	^
Hodgkin lymphoma	3.3	3.5	^	2.6	2.7	^	3.0	2.8	^	2.3	2.2	^
Non-Hodgkin lymphoma	25.0	26.0 ↑	29.4	17.3	18.4 ↑	14.3	18.0	17.9	23.8	12.1	11.9	^
Myeloma	7.2	6.5 ↓	^	4.4	3.9 ↓	^	15.1	15.2	^	10.8	10.4	^
Leukemia	17.9	17.3	19.5	10.8	10.5	^	13.6	12.9 ↓	^	8.5	8.3	^

*U.S. rates from the Surveillance, Epidemiology and End Results (SEER) Program of the National Cancer Institute

^ Rates are not generated for counts smaller than 16 over the ten-year period.

~ Not applicable

The Louisiana Tumor Registry is supported by the SEER Program, National Program of Cancer Registries (CDC), & LSUHSC-New Orleans.

↑ ↓ Louisiana rate is significantly higher or lower than the U.S. (SEER) rate.

Parish rate is significantly lower than the Louisiana rate.

Air Comparison Values in $\mu\text{g}/\text{m}^3$ from ATSDR's Sequoia Database
March 2013

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL ($\mu\text{g}/\text{m}^3$)	CREG ($\mu\text{g}/\text{m}^3$)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Reference Concentration ($\mu\text{g}/\text{m}^3$)	ATSDR Acute EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	
ACENAPHTHENE	000083-32-9					3					
ACEPHATE	030560-19-1			C							
ACETALDEHYDE	000075-07-0		0.45	B2	2	2B		9		2.2E-06	EPA Re-Assessment Underway FY13. See EPA IRIS website for more information.
ACETAMIDE	000060-35-5					2B					
ACETOCHLOR	034256-82-1										
ACETONE	000067-64-1	31,000		D1			31,000		62,000		
ACETONITRILE	000075-05-8			CN				60			
ACETOPHENONE	000098-86-2			D							
2-ACETYLAMINOFLUORENE	000053-96-3				2						
ACROLEIN	000107-02-8			D1		3	0.092	0.02	6.9		
ACRYLAMIDE	000079-06-1		0.01	LC	2	2A		6		1E-04	
ACRYLIC ACID	000079-10-7					3		1			
ACRYLONITRILE	000107-13-1		0.015	B1	2	2B		2	220	6.8E-05	EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.
ALACHLOR	015972-60-8										
ALAR	001596-84-5										
ALDICARB	000116-06-3			D		3					
ALDICARB SULFONE	001646-88-4										
ALDICARB SULFOXIDE	001646-87-3										
ALDRIN	000309-00-2		0.0002	B2		3				4.9E-03	
ALLYL ALCOHOL	000107-18-6										
ALPHA RADIATION	012587-46-1					1					
ALUMINUM	007429-90-5										
ALUMINUM PHOSPHIDE	020859-73-8										
AMETRYN	000834-12-8										
4-AMINO-3,5,6-TRICHLOROPICOLINIC ACID	001918-02-1					3					
4-AMINOBIIPHENYL	000092-67-1				1	1					
AMINOTRIAZOLE	000061-82-5				2	3					
AMMONIA	007664-41-7	70						100	1,200		Under EPA Re-Assessment FY13. See EPA IRIS website for more information.
ANILINE	000062-53-3			B2		3		1			
ANTHRACENE	000120-12-7			D		3					
ANTIMONY	007440-36-0										
ANTIMONY TRIOXIDE	001309-64-4					2B		0.2			
ARAMITE	000140-57-8		0.14	B2		2B				7.1E-06	
AROCLOR 1016	012674-11-2										Aroclor is a commercial mixture of PCBs. EPA Re-Assessment of PCBs Underway FY13. See EPA IRIS website for more information.

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL ($\mu\text{g}/\text{m}^3$)	CREG ($\mu\text{g}/\text{m}^3$)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Reference Concentration ($\mu\text{g}/\text{m}^3$)	ATSDR Acute EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	
AROCLOR 1254	011097-69-1				2						Aroclor is a commercial mixture of PCBs. EPA Re-Assessment of PCBs Underway FY13. See EPA IRIS website for more information.
AROCLOR 1260	011096-82-5				2						
ARSENIC	007440-38-2		0.00023	A	1	1				4.3E-03	An updated toxicological review (inorganic arsenic and cancer) is available as an external review draft (dated Feb 2010) on the EPA IRIS website.
ARSINE	007784-42-1							0.05			
ASBESTOS	001332-21-4		4.3E-06	A	1	1				2.3E-01	IUR: The units for the asbestos inhalation unit risk are (fibers/mL) ⁻¹ . The unit risk should not be used if the air concentration exceeds 4E-2 fibers/mL.
ASSURE	076578-14-8			D							
ATRAZINE	001912-24-9					3					
AUTOMOTIVE GASOLINE	008006-61-9					2B					
AZINPHOS-METHYL	000086-50-0	10					10		20		
AZOBENZENE	000103-33-3		0.032	B2		3				3.1E-05	
BARIUM	007440-39-3			CN							Based on EPA 1996 cancer assessment guidelines, barium is classified as not likely to be carcinogenic to humans via oral exposure (NO) and its carcinogenic potential can not be determined via inhalation (CN).
BENFLURALIN	001861-40-1										
BENOMYL	017804-35-2										
BENTAZON	025057-89-0			NO							
BENZALDEHYDE	000100-52-7										
BENZENE	000071-43-2	9.6	0.13	KL	1	1	19	30	29	7.8E-06	Inhal Unit Risk ranges from 2.2×10^{-6} to 7.8×10^{-6} (ug/m ³) ⁻¹ .
BENZIDINE	000092-87-5		1.5E-05	A	1	1				6.7E-02	
BENZO(A)ANTHRACENE	000056-55-3			B2	2	2B					Under Re-Assessment by EPA FY13. See EPA IRIS website for more information.
BENZO(A)PYRENE	000050-32-8			B2	2	1					
BENZO(B)FLUORANTHENE	000205-99-2			B2	2	2B					
BENZO(GHI)PERYLENE	000191-24-2			D		3					
BENZO(J)FLUORANTHENE	000205-82-3				2	2B					
BENZO(K)FLUORANTHENE	000207-08-9			B2	2	2B					
2,3-BENZOFURAN	000271-89-6					2B					
BENZOIC ACID	000065-85-0			D							
BENZYL CHLORIDE	000100-44-7			B2		2A					
BERYLLIUM	007440-41-7		0.00042	KL	1	1		0.02		2.4E-03	Based on EPA 1996 guidelines, beryllium is classified as a known/likely human carcinogen via inhalation exposure (KL) and its carcinogenic potential cannot be determined via oral exposure (CN). See EPA IRIS.
BETA RADIATION	012587-47-2					1					
BETA-NAPHTHYLAMINE	000091-59-8				1	1					
BIPHENYL	000092-52-4			D							
BIS(2-CHLORO-1-METHYLETHYL) ETHER	000108-60-1					3					
BIS(2-CHLOROETHYL) ETHER	000111-44-4		0.003	B2		3	120			3.3E-04	
BIS(2-ETHYLHEXYL)ADIPATE	000103-23-1			C		3					
BIS(CHLOROMETHYL) ETHER	000542-88-1		1.6E-05	A	1	1	1.4			6.2E-02	

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL ($\mu\text{g}/\text{m}^3$)	CREG ($\mu\text{g}/\text{m}^3$)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Reference Concentration ($\mu\text{g}/\text{m}^3$)	ATSDR Acute EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	
BORON	007440-42-8			DI					300		
BROMACIL	000314-40-9										
BROMATE	015541-45-4			KL							Based on EPA 1996 guidelines, bromate is classified as a known/likely human carcinogen via oral exposure (KL) and its carcinogenic potential cannot be determined via inhalation exposure (CN).
BROMIC ACID, POTASSIUM SALT	007758-01-2					2B					
BROMOACETIC ACID	000079-08-3										
BROMOBENZENE	000108-86-1			IN				60			
BROMOCHLOROMETHANE	000074-97-5			D							
BROMODICHLOROMETHANE	000075-27-4			B2	2	2B					
BROMOFORM	000075-25-2		0.91	B2		3				1.1E-06	
BROMOMETHANE	000074-83-9	19		D		3	190	5	190		
1,3-BUTADIENE	000106-99-0		0.033	CA	1	1		2		3E-05	
BUTANOL	000071-36-3			D							
2-BUTANONE	000078-93-3			DI				5,000			
2-BUTOXYETHANOL	000111-76-2	970		NC		3	15,000	1,600	29,000		
BUTYL BENZYL PHTHALATE	000085-68-7			C		3					
BUTYLATE	002008-41-5										
CADMIUM	007440-43-9	0.01	0.00056	B1	1	1			0.03	1.8E-03	
CALCIUM CYANIDE	000592-01-8										
CAPROLACTAM	000105-60-2					4					
CAPTAFOL	002425-06-1				2	2A					
CAPTAN	000133-06-2					3					
CARBARYL	000063-25-2					3					
CARBAZOLE	000086-74-8					2B					
CARBOFURAN	001563-66-2										
CARBON DISULFIDE	000075-15-0	930						700			
CARBON TETRACHLORIDE	000056-23-5	190	0.17	LC	2	2B	190	100		6E-06	
CARBOSULFAN	055285-14-8										
CARBOXIN	005234-68-4										
CELLOSOLVE	000110-80-5							200			
Cerium Oxide	001306-38-3			IN		1		0.9			
CHLORAL HYDRATE	000302-17-0			CN		3					
CHLORAMBEN	000133-90-4										
CHLORDANE	000057-74-9	0.02	0.01	KL		2B	0.2	0.7		1E-04	EPA IRIS lists chlordane (technical) as CAS# 12789-03-6 with CAS# 57-74-9 identified as a synonym. All the tox values are listed here.
CHLORDECONE	000143-50-0			LC	2	2B					
CHLORENDIC ACID	000115-28-6				2	2B					
CHLORFENVINPHOS	000470-90-6										
CHLORINE	007782-50-5	0.15					5.8		170		
CHLORINE DIOXIDE	010049-04-4			CN			2.8	0.2			
CHLORITE, SODIUM	007758-19-2			CN		3					

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL (µg/m³)	CREG (µg/m³)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL (µg/m³)	EPA Reference Concentration (µg/m³)	ATSDR Acute EMEG/MRL (µg/m³)	EPA Inhalation Unit Risk (µg/m³)⁻¹	
1-CHLORO-1,1-DIFLUOROETHANE	000075-68-3							50,000			
CHLOROACETIC ACID	000079-11-8										
2-CHLOROACETOPHENONE	000532-27-4							0.03			
4-CHLOROANILINE	000106-47-8					2B					
CHLOROBENZENE	000108-90-7			D							
CHLOROBENZILATE	000510-15-6					3					
CHLORODIFLUOROMETHANE	000075-45-6					3		50,000			
CHLOROETHANE	000075-00-3					3		10,000	40,000		
CHLOROFORM	000067-66-3	98	0.043	LI	2	2B	240		490	2.3E-05	EPA Re-Assessment Underway FY13. See EPA IRIS website for more information.
CHLOROMETHANE	000074-87-3	100		CN		3	410	90	1,000		
2-CHLORONAPHTHALENE	000091-58-7										
2-CHLOROPHENOL	000095-57-8										
4-CHLOROPHENOL	000106-48-9										
2-CHLOROPRENE	000126-99-8		0.0033	LC	2	2B		20		3E-04	
3-CHLOROPROPENE	000107-05-1			C		3		1			
CHLOROTHALONIL	001897-45-6					2B					
2-CHLOROTOLUENE	000095-49-8										
CHLOROPROPHAM	000101-21-3					3					
CHLORPYRIFOS	002921-88-2										
CHROMIUM	007440-47-3					3					An updated toxicological review is available as an external review draft (dated Sept 2010) on the EPA IRIS website. Also, see CVs for hexavalent (CAS 018540-29-9) and trivalent (CAS 016065-83-1) chromium.
CHROMIUM, HEXAVALENT	018540-29-9	0.005	8.3E-05	KL	1	1	0.005	0.1		1.2E-02	Based on EPA 1996 guidelines, chromium(VI) is classified as a known/likely human carcinogen via inhalation exposure (KL) and its carcinogenic potential cannot be determined via oral exposure (CN). See EPA IRIS.
CHROMIUM, TRIVALENT	016065-83-1			CN		3	0.1				
CHRYSENE	000218-01-9			B2		2B					
COAL TAR CREOSOTE	008001-58-9			B1	1	2A					
COAL TAR	008007-45-2		0.0016	A	1	1				6.2E-04	
COBALT	007440-48-4	0.1				2B					
COBALT-TUNGSTEN CARBIDE (Powders and Hard Metals)	HZ0900-30-T				2						
COPPER	007440-50-8			D							
COPPER CYANIDE	000544-92-3										
COUMARIN	000091-64-5					3					
CRESOL, META-	000108-39-4			C							
CRESOL, ORTHO-	000095-48-7			C							
CRESOL, PARA-	000106-44-5			C							
CRESOLS	001319-77-3										
CUMENE	000098-82-8			CN		2B		400			
CYANAZINE	021725-46-2										
CYANIDE	000057-12-5			D							

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL ($\mu\text{g}/\text{m}^3$)	CREG ($\mu\text{g}/\text{m}^3$)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Reference Concentration ($\mu\text{g}/\text{m}^3$)	ATSDR Acute EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	
CYANIDE, SODIUM	000143-33-9										
CYANOGEN	000460-19-5										
CYANOGEN CHLORIDE	000506-77-4										
CYCLOHEXANE	000110-82-7			D1				6,000			
CYCLOHEXANONE	000108-94-1					3					
CYFLUTHRIN	068359-37-5										
CYHALOTHRIN	068085-85-8										
CYPERMETHRIN	052315-07-8										
2,4-D ACID	000094-75-7										
DACTHAL	001861-32-1										
DDD, P,P'-	000072-54-8			B2		2B					
DDE, P,P'-	000072-55-9			B2		2B					
DDT, P,P'-	000050-29-3		0.01	B2	2	2B				9.7E-05	
DECABROMODIPHENYL ETHER	001163-19-5			SU		3					
DEMETON	008065-48-3										
DI(2-ETHYLHEXYL)PHTHALATE	000117-81-7			B2	2						EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.
DI-N-BUTYL PHTHALATE	000084-74-2			D							EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.
DI-N-OCTYL PHTHALATE	000117-84-0										
2,4-DIAMINOTOLUENE	000095-80-7				2	2B					
DIAZINON	000333-41-5					1	10				
DIBENZO(A,E)PYRENE	000192-65-4				2	3					
DIBENZO(A,H)ANTHRACENE	000053-70-3			B2	2	2A					
DIBENZO(A,L)PYRENE	000191-30-0				2	2A					
1,2-DIBROMO-3-CHLOROPROPANE	000096-12-8				2	2B	1.9	0.2			
DIBROMOACETIC ACID	000631-64-1										
1,4-DIBROMOBENZENE	000106-37-6										
DIBROMOCHLOROMETHANE	000124-48-1			C		3					
1,2-DIBROMOETHANE	000106-93-4		0.0017	LI	2	2A		9		6E-04	The Inhalation Unit Risk of 0.0006 ($\mu\text{g}/\text{m}^3$) ⁻¹ is the 95% upper bound value, the central tendency Inhalation Unit Risk is 0.0003 ($\mu\text{g}/\text{m}^3$) ⁻¹ .
DIBUTYL TIN DICHLORIDE	000683-18-1										
DICAMBA	001918-00-9					1					
DICHLOROACETIC ACID	000079-43-6			LI		2B					
1,2-DICHLOROBENZENE	000095-50-1			D		3					EPA Re-Assessment Underway FY13. See EPA IRIS website for more information.
1,4-DICHLOROBENZENE	000106-46-7	60			2	2B	1,200	800	12,000		EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.
1,3-DICHLOROBENZENE	000541-73-1			D		3					EPA Re-Assessment Underway FY13. See EPA IRIS website for more information.
3,3'-DICHLOROBENZIDINE	000091-94-1			B2	2	2B					
DICHLORODIFLUOROMETHANE	000075-71-8										
1,1-DICHLOROETHANE	000075-34-3			C							
1,2-DICHLOROETHANE	000107-06-2	2,400	0.038	B2	2	2B				2.6E-05	

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL ($\mu\text{g}/\text{m}^3$)	CREG ($\mu\text{g}/\text{m}^3$)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Reference Concentration ($\mu\text{g}/\text{m}^3$)	ATSDR Acute EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	
1,1-DICHLOROETHENE	000075-35-4			NS		3	79	200			Inhalation studies have been reviewed by EPA, but an EPA Inhalation RFC has not been estimated. See IRIS website for summary.
1,2-DICHLOROETHENE, CIS-	000156-59-2			IN							
1,2-DICHLOROETHENE, TRANS-	000156-60-5			IN			790		790		
2,4-DICHLOROPHENOL	000120-83-2										
4-(2,4-DICHLOROPHENOXY)BUTYRIC ACID	000094-82-6										
1,2-DICHLOROPROPANE	000078-87-5					3	32	4	230		
2,3-DICHLOROPROPANOL	000616-23-9										
2,3-DICHLOROPROPENE	000078-88-6								9.1		
1,3-DICHLOROPROPENE	000542-75-6	32	0.25	KL	2	2B	36	20		4E-06	
2,2-DICHLOROPROPIONIC ACID	000075-99-0										
DICHLORVOS	000062-73-7	0.54		B2		2B	2.7	0.5	18		
DICOFOL	000115-32-2					3					
DICROTOPHOS	000141-66-2										
DIELDRIN	000060-57-1		0.00022	B2		3				4.6E-03	
DIETHANOLAMINE	000111-42-2					3					
DIETHYL PHTHALATE	000084-66-2			D							
DIFENZOQUAT	043222-48-6										
DIFLUBENZURON	035367-38-5										
1,1-DIFLUOROETHANE	000075-37-6							40,000			
DIISOPROPYL METHYLPHOSPHONATE	001445-75-6			D							
DI METHOATE	000060-51-5										
3,3'-DIMETHOXYBENZIDINE	000119-90-4				2	2B					
DIMETHYL CARBAMYL CHLORIDE	000079-44-7				2	2A					
DIMETHYL FORMAMIDE	000068-12-2					3		30			
DIMETHYL METHYLPHOSPHONATE	000756-79-6			C							
1,4-DIMETHYL PHTHALATE	000120-61-6										
DIMETHYL PHTHALATE	000131-11-3			D							
DIMETHYL SULFATE	000077-78-1			B2	2	2A					
DIMETHYLANILINE	000121-69-7					3					
DIMETHYLARSINIC ACID	000075-60-5			D		2B					
1,1-DIMETHYLHYDRAZINE	000057-14-7				2	2B	0.49				
1,2-DIMETHYLHYDRAZINE	000540-73-8					2A					
2,6-DIMETHYLPHENOL	000576-26-1										
2,4-DIMETHYLPHENOL	000105-67-9										
4,6-DINITRO-O-CRESOL	000534-52-1										
4,6-DINITRO-O-CYCLOHEXYL PHENOL	000131-89-5										
1,3-DINITROBENZENE	000099-65-0			D		1					
2,4-DINITROPHENOL	000051-28-5										

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL ($\mu\text{g}/\text{m}^3$)	CREG ($\mu\text{g}/\text{m}^3$)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Reference Concentration ($\mu\text{g}/\text{m}^3$)	ATSDR Acute EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	
DINITROTOLUENE	025321-14-6			B2							
2,4-DINITROTOLUENE	000121-14-2					2B					
2,6-DINITROTOLUENE	000606-20-2					2B					
DINOSEB	000088-85-7			D							
1,4-DIOXANE	000123-91-1	110		LC	2	2B	720		7,200		Inhalation studies have been reviewed by EPA, but an EPA RFC has not been estimated. See IRIS website for summary.
DIPHENAMID	000957-51-7										
DIPHENYLAMINE	000122-39-4										
1,2-DIPHENYLHYDRAZINE	000122-66-7		0.0045	B2	2					2.2E-04	
DIPHENYLMETHANE DIISOCYANATE	000101-68-8			CN		3		0.6			
DIQUAT	002764-72-9										
DISODIUM ARSENATE	007778-43-0				1	1					
DISULFOTON	000298-04-4						0.2		6		
1,4-DITHIANE	000505-29-3			D							
DIURON	000330-54-1										
ENDOSULFAN	000115-29-7										
ENDOTHALL	000145-73-3										
ENDRIN	000072-20-8			D		3					
EPICHLOROHYDRIN	000106-89-8		0.83	B2	2	2A		1		1.2E-06	
EPN	002104-64-5										
1,2-EPOXYBUTANE	000106-88-7					2B		20			
EPTC	000759-94-4										
ETHEPHON	016672-87-0										
ETHION	000563-12-2										
ETHYL ACETATE	000141-78-6										
ETHYL ACRYLATE	000140-88-5					2B					
ETHYL ETHER	000060-29-7										
ETHYLBENZENE	000100-41-4	260		D		2B	8,700	1,000	22,000		
ETHYLENE GLYCOL	000107-21-1								2,000		
ETHYLENE OXIDE	000075-21-8				1	1	160				
FENAMIPHOS	022224-92-6										
FENVALERATE	051630-58-1					3					
FIBROUS GLASS AND MINERAL WOOL	H20900-22-T				2						
FLUOMETURON	002164-17-2					3					
FLUORANTHENE	000206-44-0			D		3					
FLUORENE	000086-73-7			D		3					
FLUORINE	007782-41-4								16		
FLUSILAZOLE	085509-19-9										
FOLPET	000133-07-3			B2							
FONOPHOS	000944-22-9										

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL (µg/m³)	CREG (µg/m³)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL (µg/m³)	EPA Reference Concentration (µg/m³)	ATSDR Acute EMEG/MRL (µg/m³)	EPA Inhalation Unit Risk (µg/m³)⁻¹	
FORMALDEHYDE	000050-00-0	9.8	0.077	B1	1	1	37		49	1.3E-05	EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.
FUEL OIL NO. 2	068476-30-2					3			20		IARC cancer class value is for fuel oils, distillate (light).
FUEL RELATED ORGANICS	HZ0600-47-T			LI				5			The RFC and EPA cancer class are listed specifically for Diesel Engine Exhaust (EPA IRIS).
FURAN	000110-00-9				2	2B					
FURFURAL	000098-01-1					3					
GAMMA RADIATION	HZ1800-03-T				1	1					
GLYCIDYLALDEHYDE	000765-34-4			B2		2B					
GLYPHOSATE	001071-83-6			D							
HEPTACHLOR	000076-44-8		0.00077	B2		2B				1.3E-03	
HEPTACHLOR EPOXIDE	001024-57-3		0.00038	B2						2.6E-03	
HEXABROMOBENZENE	000087-82-1										
HEXACHLOROBENZENE	000118-74-1		0.0022	B2	2	2B				4.6E-04	
HEXACHLOROBUTADIENE	000087-68-3		0.045	C		3				2.2E-05	EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.
HEXACHLOROCYCLOHEXANE, ALPHA-	000319-84-6		0.00056	B2	2	2B				1.8E-03	
HEXACHLOROCYCLOHEXANE, BETA-	000319-85-7		0.0019	C	2	2B				5.3E-04	
HEXACHLOROCYCLOHEXANE, GAMMA-	000058-89-9				2	2B					
HEXACHLOROCYCLOHEXANE, TECHNICAL GRADE	000608-73-1		0.002	B2	2	2B				5.1E-04	
HEXACHLOROCYCLOPENTADIENE	000077-47-4	2.2		NO			110	0.2			
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	019408-74-3		7.7E-07	B2		3				1.3E+00	
HEXACHLOROETHANE	000067-72-1			LC	2	2B	58,000	30	58,000		
HEXACHLOROPHENE	000070-30-4					3					
HEXAMETHYL PHOSPHORAMIDE	000680-31-9				2	2B					
HEXAMETHYLENE DIISOCYANATE	000822-06-0	0.069					0.21	0.01			
HEXANE, N-	000110-54-3	2,100		IN				700			
2-HEXANONE	000591-78-6			IN				30			
HMX (CYCLOTETRAMETHYLENE TETRAINITRAMINE)	002691-41-0			D							
HYDRAZINE	000302-01-2		0.0002	B2	2	2B	5.2			4.9E-03	
HYDROCHLORIC ACID	007647-01-0					3		20			
HYDROGEN CYANIDE	000074-90-8			IN				0.8			
HYDROGEN FLUORIDE	007664-39-3								16		
HYDROGEN SULFIDE	007783-06-4			DI			28	2	98		
HYPOCHLORITE	014380-61-1					3					
INDENO(1,2,3-CD)PYRENE	000193-39-5			B2	2	2B					
IODINE	007553-56-2										

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL ($\mu\text{g}/\text{m}^3$)	CREG ($\mu\text{g}/\text{m}^3$)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Reference Concentration ($\mu\text{g}/\text{m}^3$)	ATSDR Acute EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	
IODINE-131	010043-66-0					1					
ISOBUTYL ALCOHOL	000078-83-1										
ISOPHORONE	000078-59-1			C							
ISOPROPYL METHYL PHOSPHONATE	005514-35-2										
ISOPROPYL PHENYL CARBAMATE	000122-42-9					3					
JP-4	050815-00-4						9,000				
JP-5/JP-8	HZ0600-26-T						3,000				
JP-7	HZ0600-22-T	300				3					
KEROSENE	008008-20-6					3	10				IARC cancer class value is for fuel oils, distillate (light).
LEAD	007439-92-1			B2	2	2B					
LEAD ACETATE	000301-04-2				2	2A					
LEAD PHOSPHATE	007446-27-7				2	2A					
M-PHENYLENEDIAMINE	000108-45-2					3					
M-XYLENE	000108-38-3										Refer to MRLs and Comparison Values for total xylenes (CASRN 1330-20-7).
MALATHION	000121-75-5					3	20		200		
MALEIC ANHYDRIDE	000108-31-6										
MANEB	012427-38-2					3					
MANGANESE	007439-96-5	0.3		D				0.05			
MEPIQUAT CHLORIDE	024307-26-4										
MERCURIC CHLORIDE	007487-94-7			C		3					
MERCURY	007439-97-6	0.2		D		3		0.3			
MERPHOS	000150-50-5										
METHACRYLONITRILE	000126-98-7										
METHAMIDOPHOS	010265-92-6										
METHANOL	000067-56-1										EPA Re-Assessment Underway FY13. See EPA IRIS website for more information.
METHIDATHION	000950-37-8			C							
METHOMYL	016752-77-5										
1-METHOXY-2-PROPANOL	000107-98-2							2,000			
METHOXYCHLOR	000072-43-5			D		3					
METHOXYETHANOL	000109-86-4							20			
METHYL ISOBUTYL KETONE	000108-10-1			D1				3,000			
METHYL METHACRYLATE	000080-62-6			NO		3		700			
METHYL PARATHION	000298-00-0					3					
4-(2-METHYL-4-CHLOROPHENOXY) BUTYRIC ACID	000094-81-5										
2-METHYL-4-CHLOROPHENOXYACETIC ACID	000094-74-6										
METHYL-T-BUTYL ETHER	001634-04-4	2,500				3	2,500	3,000	7,200		
2-METHYLAZIRIDINE	000075-55-8				2	2B					
5-METHYLCHRYSENE	003697-24-3				2	2B					

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL ($\mu\text{g}/\text{m}^3$)	CREG ($\mu\text{g}/\text{m}^3$)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Reference Concentration ($\mu\text{g}/\text{m}^3$)	ATSDR Acute EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	
METHYLENE CHLORIDE	000075-09-2	1,000	100	LC	2	2B	1,000	600	2,100	1E-08	Pls Note: The inhalation unit risk (IRIS, 2011) is (1.0e-03 $\mu\text{g}/\text{m}^3$) ⁻¹ . Air CREG is 100 $\mu\text{g}/\text{m}^3$.
4,4'-METHYLENEBIS(2-CHLOROANILINE)	000101-14-4				2	1					
4,4'-METHYLENEDIANILINE	000101-77-9				2	2B					
4,4'-(1-METHYLETHYLIDENE)BIS-PHENOL	000080-05-7										
METHYLMERCURY	022967-92-6			C		2B					
1-METHYLNAPHTHALENE	000090-12-0										
2-METHYLNAPHTHALENE	000091-57-6			D1							
METOLACHLOR	051218-45-2			C							
METIBUZIN	021087-64-9			D							
MIREX	002385-85-5				2	2B					
MOLINATE	002212-67-1										An updated literature search (dated Dec 2010) is available on the EPA IRIS website.
MOLYBDENUM	007439-98-7										
MONOCHLORAMINE	010599-90-3			D		3					
MONOMETHYLARSONIC ACID	000124-58-3					2B					
N-NITROSO-N-METHYLBURETHANE	000615-53-2					2B					
N-NITROSODI-N-PROPYLAMINE	000621-64-7			B2	2	2B					
N-NITROSODIETHYLAMINE	000055-18-5		2.3E-05	B2	2	2A				4.3E-02	
N-NITROSODIMETHYLAMINE	000062-75-9		7.1E-05	B2	2	2A				1.4E-02	
N-NITROSODIPHENYLAMINE	000086-30-6			B2		3					
NALED	000300-76-5										
NAPHTHALENE	000091-20-3	3.7		CN	2	2B		3			This is a type of PBDE. Refer to the MRLs listed under CAS# 032534-81-9, (PBDEs, lower brominated).
NICKEL	007440-02-0	0.09			2	2B	0.2				
NICKEL SUBSULFIDE	012035-72-2		0.0021	A	1	1				4.8E-04	
NITRATE	014797-55-8										
NITRATE AND NITRITE	HZ2100-10-T					2A					
NITRILOTRIACETIC ACID	000139-13-9				2	2B					
NITRITE	014797-65-0										
NITROBENZENE	000098-95-3		0.025	LC		2B		9		4E-05	
NITROGLYCERINE	000055-63-0										
NITROGUANIDINE	000056-88-7			D							
4-NITROPHENOL	000100-02-7										
2-NITROPROPANE	000079-46-9				2	2B		20			
NITROSOMORPHOLINE	000059-89-2				2	2B					
2-NITROTOLUENE	000088-72-2				2						
OCTABROMODIPHENYL ETHER	032536-52-0			D							
ORYZALIN	019044-88-3			C							
OXADIAZON	019666-30-9										
OXAMYL	023135-22-0										
OXYFLUORFEN	042874-03-3										

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL (µg/m³)	CREG (µg/m³)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL (µg/m³)	EPA Reference Concentration (µg/m³)	ATSDR Acute EMEG/MRL (µg/m³)	EPA Inhalation Unit Risk (µg/m³)⁻¹	
P-CHLOROTOLUENE	000106-43-4			D							Refer to MRLs and Comparison Values for total xylenes (CASRN 1330-20-7).
P-XYLENE	000106-42-3										
PARAQUAT DICHLORIDE	001910-42-5			C							
PARATHION	000056-38-2			C		3					
PENDIMETHALIN	040487-42-1										
PENTACHLOROBENZENE	000608-93-5			D							
2,3,4,7,8-PENTACHLORODIBENZOFURAN	057117-31-4					1					
PENTACHLORONITROBENZENE	000082-68-8					3					
PENTACHLOROPHENOL	000087-86-5			LC		2B					
PERCHLORATE	014797-73-0			NL							
PERMETHRIN	052645-53-1					3					
PHENANTHRENE	000085-01-8			D		3					
PHENOL	000108-95-2			DI		3					
PHENYL MERCURIC ACETATE	000062-38-4										
PHOSGENE	000075-44-5			IN				0.3			
PHOSPHINE	007803-51-2			D				0.3			
PHOSPHORIC ACID	007664-38-2							10			
PHOSPHORUS, WHITE	007723-14-0			D					20		
PHOSPHORUS-32	014596-37-3					1					
PHTHALIC ANHYDRIDE	000085-44-9										
PLUTONIUM-239	015117-48-3					1					
POLYBROMINATED BIPHENYLS	067774-32-7				2	2B					
POLYBROMINATED DIPHENYL ETHERS	032534-81-9			D			6				These MRLs also include octa-BDE, CAS #: 32536-52-0. See PBB/PBDE Tox Profile for discussion.
POLYCHLORINATED BIPHENYLS	001336-36-3		0.01	B2	2	2A				1E-04	EPA Re-Assessment Underway FY13. See EPA IRIS website for more information. The IUR is based on the upper-bound unit risk.
POLYMETHYLENE POLYPHENYLISOCYANATE	009016-87-9			CN		3		0.6			RfC also applies to CAS #101-68-8 (EPA IRIS).
POTASSIUM CYANIDE	000151-50-8										
POTASSIUM SILVER CYANIDE	000506-61-6										
PROMETON	001610-18-0										
PROMETRYN	007287-19-6										
PRONAMIDE	023950-58-5										
PROPACHLOR	001918-16-7										
PROPANIL	000709-98-8										
PROPARGITE	002312-35-8										
PROPAZINE	000139-40-2										
PROPOXUR	000114-26-1										
PROPYLENE GLYCOL	000057-55-6						28				
PROPYLENE GLYCOL DINITRATE	006423-43-4	0.27					0.27		20		
PROPYLENE OXIDE	000075-56-9		0.27	B2	2	2B		30		3.7E-06	
PURSUIT	081335-77-5										

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL ($\mu\text{g}/\text{m}^3$)	CREG ($\mu\text{g}/\text{m}^3$)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Reference Concentration ($\mu\text{g}/\text{m}^3$)	ATSDR Acute EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	
PYRENE	000129-00-0			D		3					
PYRIDINE	000110-86-1					3					
RADIUM	007440-14-4					1					
RADIUM-224 AND DAUGHTERS	HZ1800-60-T					1					
RADIUM-226 AND DAUGHTERS	HZ1800-61-T					1					
RADIUM-226/228	HZ1800-20-T					1					
RADIUM-228 AND DAUGHTERS	HZ1800-62-T					1					
RADON	010043-92-2				1	1					
RDX (Cyclonite)	000121-82-4			C							
REFRACTORY CERAMIC FIBERS	HZ0900-26-T			B2	2	2B					Chronic inhalation MRL = 0.03 fibers/cc. See Synthetic Vitreous Fibers Toxicological Profile for more info.
RESMETHRIN	010453-86-8										
ROTENONE	000083-79-4										
S,S,S-TRIBUTYL PHOSPHOTRITHIOATE	000078-48-8										
SELENIOS ACID	007783-00-8			D		3					
SELENIUM	007782-49-2			D		3					
SELENIUM SULFIDE	007446-34-6			B2	2	3					
SILICA, AMORPHOUS	007631-86-9				1	3					
SILVER	007440-22-4			D							
SILVER CYANIDE	000506-64-9										
SIMAZINE	000122-34-9					3					
SODIUM AZIDE	026628-22-8										
SODIUM BROMATE	007789-38-0										
SODIUM DIETHYLDITHIOCARBAMATE	000148-18-5					3					
SODIUM FLUORIDE	007681-49-4					3					
SODIUM FLUOROACETATE	000062-74-8										
STRONTIUM	007440-24-6										
STRONTIUM CHROMATE(VI)	007789-06-2				1	1					IARC cancer class is for chromium and chromium compounds.
STRYCHNINE	000057-24-9										
STYRENE	000100-42-5	850			2	2B		1,000	21,000		
SULFOTEP	003689-24-5										
SULFUR DIOXIDE	007446-09-5					3			26		
SULFUR MUSTARD	000505-60-2				1	1	0.02		0.7		
2,4,5-T	000093-76-5										
TEBUTHIURON	034014-18-1										
TERBACIL	005902-51-2										
TERBUFOS	013071-79-9										
TERBUTRYN	000886-50-0										
1,2,4,5-TETRACHLOROBENZENE	000095-94-3										

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL ($\mu\text{g}/\text{m}^3$)	CREG ($\mu\text{g}/\text{m}^3$)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Reference Concentration ($\mu\text{g}/\text{m}^3$)	ATSDR Acute EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	001746-01-6				1	1					EPA Cancer Re-Assessment currently underway. See EPA IRIS website for more information.
1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN	030746-58-8					3					
1,1,1,2-TETRACHLOROETHANE	000630-20-6		0.14	C		3				7.4E-06	
1,1,2,2-TETRACHLOROETHANE	000079-34-5			LC		3					Inhalation studies have been reviewed by EPA, but an EPA Inhalation RFC has not been estimated. See IRIS website for summary.
TETRACHLOROETHYLENE	000127-18-4	270	3.8	LC	2	2A		40	1,400	2.6E-07	
2,3,4,6-TETRACHLOROPHENOL	000058-90-2										
TETRAETHYL LEAD	000078-00-2					3					
1,1,1,2-TETRAFLUOROETHANE	000811-97-2							80,000			
TETRAHYDROFURAN	000109-99-9			SU				2,000			
THALLIUM	007440-28-0										
THALLIUM ACETATE	000563-68-8			IN							
THALLIUM CARBONATE	006533-73-9			IN							
THALLIUM NITRATE	010102-45-1			IN							
THALLIUM SULFATE	007446-18-6			IN							
THIOACETAMIDE	000062-55-5				2	2B					
THIOBENCARB	028249-77-6										
THIOUREA	000062-56-6				2	3					
THIRAM	000137-26-8					3					
THORIUM	007440-29-1					1					IARC cancer class is for Thorium-232.
TIN	007440-31-5										
TITANIUM TETRACHLORIDE	007550-45-0	0.1					10				
TOLUENE	000108-88-3	300		IN		3		5,000	3,800		
TOLUENE DIISOCYANATE (N.O.S)	026471-62-5				2	2B		0.07			
TOXAPHENE	008001-35-2		0.0031	B2	2	2B				3.2E-04	
2,4,5-TP ACID	000093-72-1			D							
1,2,4-TRIBROMOBENZENE	000615-54-3										
TRIBUTOXYETHYL PHOSPHATE	000078-51-3										
TRIBUTYL PHOSPHATE	000126-73-8										
TRIBUTYL TIN OXIDE	000056-35-9			CN							
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	000076-13-1										
TRICHLOROACETIC ACID	000076-03-9			SU		3					
1,3,5-TRICHLOROBENZENE	000108-70-3										
1,2,4-TRICHLOROBENZENE	000120-82-1			D							
1,1,2-TRICHLOROETHANE	000079-00-5		0.063	C		3				1.6E-05	
1,1,1-TRICHLOROETHANE	000071-55-6			IN		3	3,800	5,000	11,000		
TRICHLOROETHYLENE	000079-01-6	2	0.24	CH	2	2A		2		4.1E-06	
TRICHLOROFLUOROMETHANE	000075-69-4										
(TRICHLOROMETHYL)BENZENE	000098-07-7			B2	2	2A					

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL (µg/m³)	CREG (µg/m³)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL (µg/m³)	EPA Reference Concentration (µg/m³)	ATSDR Acute EMEG/MRL (µg/m³)	EPA Inhalation Unit Risk (µg/m³)⁻¹	
2,4,5-TRICHLOROPHENOL	000095-95-4										
2,4,6-TRICHLOROPHENOL	000088-06-2		0.32	B2	2					3.1E-06	
1,2,3-TRICHLOROPROPANE	000096-18-4			LC	2	2A		0.3	1.8		
1,1,2-TRICHLOROPROPANE	000598-77-6										
TRIETHANOLAMINE	000102-71-6					3					
TRIETHYLAMINE	000121-44-8							7			
TRIFLURALIN	001582-09-8			C		3					
1,3,5-TRINITROBENZENE	000099-35-4										
2,4,6-TRINITROTOLUENE	000118-96-7			C		3					
TRIS(2-BUTOXYETHYL)PHOSPHATE	000078-51-3										
TRIS(1,3-DICHLORO-2-PROPYL)PHOSPHATE	013674-87-8										
TRIS(2,3-DIBROMOPROPYL)PHOSPHATE	000126-72-7				2	2A					
TRIS(2-CHLOROETHYL)PHOSPHATE	000115-96-8					3					
URANIUM	007440-61-1										
URANIUM, INSOLUBLE COMPOUNDS	HZ1800-92-T	0.8					2				
URANIUM, MODERATELY SOLUBLE SALTS	HZ1800-91-T										
URANIUM, SOLUBLE SALTS	HZ1800-90-T	0.04					0.1				
URETHANE, SOLIDIFIED	000051-79-6				2	2A					
VANADIUM	007440-62-2	0.1							0.8		
VANADIUM PENTOXIDE	001314-62-1					2B					Under EPA Re-Assessment FY13. See EPA IRIS website for more information.
VERNOLATE	001929-77-7										
VINCLOZOLIN	050471-44-8										
VINYL ACETATE	000108-05-4					2B	35	200			
VINYL BROMIDE	000593-60-2				2	2A		3			
VINYL CHLORIDE	000075-01-4		0.11	KL	1	1	77	100	1,300	8.8E-06	Oral CSF and IUR are based on continuous lifetime exposures since birth. See EPA IRIS website for more information.
WARFARIN	000081-81-2										
XYLENES, TOTAL	001330-20-7	220		D1		3	2,600	100	8,700		
3,4-XYLENOL	000095-65-8										
ZINC	007440-66-6			IN							
ZINC CYANIDE	000557-21-1										
ZINEB	012122-67-7					3					

Air Comparison Values in $\mu\text{g}/\text{m}^3$ from ATSDR's Sequoia Database
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SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL ($\mu\text{g}/\text{m}^3$)	CREG ($\mu\text{g}/\text{m}^3$)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Reference Concentration ($\mu\text{g}/\text{m}^3$)	ATSDR Acute EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	
ACENAPHTHENE	000083-32-9					3					
ACEPHATE	030560-19-1			C							
ACETALDEHYDE	000075-07-0		0.45	B2	2	2B		9		2.2E-06	EPA Re-Assessment Underway FY13. See EPA IRIS website for more information.
ACETAMIDE	000060-35-5					2B					
ACETOCHLOR	034256-82-1										
ACETONE	000067-64-1	31,000		D1			31,000		62,000		
ACETONITRILE	000075-05-8			CN				60			
ACETOPHENONE	000098-86-2			D							
2-ACETYLAMINOFLUORENE	000053-96-3				2						
ACROLEIN	000107-02-8			D1		3	0.092	0.02	6.9		
ACRYLAMIDE	000079-06-1		0.01	LC	2	2A		6		1E-04	
ACRYLIC ACID	000079-10-7					3		1			
ACRYLONITRILE	000107-13-1		0.015	B1	2	2B		2	220	6.8E-05	EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.
ALACHLOR	015972-60-8										
ALAR	001596-84-5										
ALDICARB	000116-06-3			D		3					
ALDICARB SULFONE	001646-88-4										
ALDICARB SULFOXIDE	001646-87-3										
ALDRIN	000309-00-2		0.0002	B2		3				4.9E-03	
ALLYL ALCOHOL	000107-18-6										
ALPHA RADIATION	012587-46-1					1					
ALUMINUM	007429-90-5										
ALUMINUM PHOSPHIDE	020859-73-8										
AMETRYN	000834-12-8										
4-AMINO-3,5,6-TRICHLOROPICOLINIC ACID	001918-02-1					3					
4-AMINOBIIPHENYL	000092-67-1				1	1					
AMINOTRIAZOLE	000061-82-5				2	3					
AMMONIA	007664-41-7	70						100	1,200		Under EPA Re-Assessment FY13. See EPA IRIS website for more information.
ANILINE	000062-53-3			B2		3		1			
ANTHRACENE	000120-12-7			D		3					
ANTIMONY	007440-36-0										
ANTIMONY TRIOXIDE	001309-64-4					2B		0.2			
ARAMITE	000140-57-8		0.14	B2		2B				7.1E-06	
AROCLOR 1016	012674-11-2										Aroclor is a commercial mixture of PCBs. EPA Re-Assessment of PCBs Underway FY13. See EPA IRIS website for more information.

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL ($\mu\text{g}/\text{m}^3$)	CREG ($\mu\text{g}/\text{m}^3$)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Reference Concentration ($\mu\text{g}/\text{m}^3$)	ATSDR Acute EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	
AROCLOR 1254	011097-69-1				2						Aroclor is a commercial mixture of PCBs. EPA Re-Assessment of PCBs Underway FY13. See EPA IRIS website for more information.
AROCLOR 1260	011096-82-5				2						
ARSENIC	007440-38-2		0.00023	A	1	1				4.3E-03	An updated toxicological review (inorganic arsenic and cancer) is available as an external review draft (dated Feb 2010) on the EPA IRIS website.
ARSINE	007784-42-1							0.05			
ASBESTOS	001332-21-4		4.3E-06	A	1	1				2.3E-01	IUR: The units for the asbestos inhalation unit risk are (fibers/mL) ⁻¹ . The unit risk should not be used if the air concentration exceeds 4E-2 fibers/mL.
ASSURE	076578-14-8			D							
ATRAZINE	001912-24-9					3					
AUTOMOTIVE GASOLINE	008006-61-9					2B					
AZINPHOS-METHYL	000086-50-0	10					10		20		
AZOBENZENE	000103-33-3		0.032	B2		3				3.1E-05	
BARIUM	007440-39-3			CN							Based on EPA 1996 cancer assessment guidelines, barium is classified as not likely to be carcinogenic to humans via oral exposure (NO) and its carcinogenic potential can not be determined via inhalation (CN).
BENFLURALIN	001861-40-1										
BENOMYL	017804-35-2										
BENTAZON	025057-89-0			NO							
BENZALDEHYDE	000100-52-7										
BENZENE	000071-43-2	9.6	0.13	KL	1	1	19	30	29	7.8E-06	Inhal Unit Risk ranges from 2.2×10^{-6} to 7.8×10^{-6} (ug/m ³) ⁻¹ .
BENZIDINE	000092-87-5		1.5E-05	A	1	1				6.7E-02	
BENZO(A)ANTHRACENE	000056-55-3			B2	2	2B					Under Re-Assessment by EPA FY13. See EPA IRIS website for more information.
BENZO(A)PYRENE	000050-32-8			B2	2	1					
BENZO(B)FLUORANTHENE	000205-99-2			B2	2	2B					
BENZO(GHI)PERYLENE	000191-24-2			D		3					
BENZO(J)FLUORANTHENE	000205-82-3				2	2B					
BENZO(K)FLUORANTHENE	000207-08-9			B2	2	2B					
2,3-BENZOFURAN	000271-89-6					2B					
BENZOIC ACID	000065-85-0			D							
BENZYL CHLORIDE	000100-44-7			B2		2A					
BERYLLIUM	007440-41-7		0.00042	KL	1	1		0.02		2.4E-03	Based on EPA 1996 guidelines, beryllium is classified as a known/likely human carcinogen via inhalation exposure (KL) and its carcinogenic potential cannot be determined via oral exposure (CN). See EPA IRIS.
BETA RADIATION	012587-47-2					1					
BETA-NAPHTHYLAMINE	000091-59-8				1	1					
BIPHENYL	000092-52-4			D							
BIS(2-CHLORO-1-METHYLETHYL) ETHER	000108-60-1					3					
BIS(2-CHLOROETHYL) ETHER	000111-44-4		0.003	B2		3	120			3.3E-04	
BIS(2-ETHYLHEXYL)ADIPATE	000103-23-1			C		3					
BIS(CHLOROMETHYL) ETHER	000542-88-1		1.6E-05	A	1	1	1.4			6.2E-02	

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL ($\mu\text{g}/\text{m}^3$)	CREG ($\mu\text{g}/\text{m}^3$)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Reference Concentration ($\mu\text{g}/\text{m}^3$)	ATSDR Acute EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	
BORON	007440-42-8			DI					300		
BROMACIL	000314-40-9										
BROMATE	015541-45-4			KL							Based on EPA 1996 guidelines, bromate is classified as a known/likely human carcinogen via oral exposure (KL) and its carcinogenic potential cannot be determined via inhalation exposure (CN).
BROMIC ACID, POTASSIUM SALT	007758-01-2					2B					
BROMOACETIC ACID	000079-08-3										
BROMOBENZENE	000108-86-1			IN				60			
BROMOCHLOROMETHANE	000074-97-5			D							
BROMODICHLOROMETHANE	000075-27-4			B2	2	2B					
BROMOFORM	000075-25-2		0.91	B2		3				1.1E-06	
BROMOMETHANE	000074-83-9	19		D		3	190	5	190		
1,3-BUTADIENE	000106-99-0		0.033	CA	1	1		2		3E-05	
BUTANOL	000071-36-3			D							
2-BUTANONE	000078-93-3			DI				5,000			
2-BUTOXYETHANOL	000111-76-2	970		NC		3	15,000	1,600	29,000		
BUTYL BENZYL PHTHALATE	000085-68-7			C		3					
BUTYLATE	002008-41-5										
CADMIUM	007440-43-9	0.01	0.00056	B1	1	1			0.03	1.8E-03	
CALCIUM CYANIDE	000592-01-8										
CAPROLACTAM	000105-60-2					4					
CAPTAFOL	002425-06-1				2	2A					
CAPTAN	000133-06-2					3					
CARBARYL	000063-25-2					3					
CARBAZOLE	000086-74-8					2B					
CARBOFURAN	001563-66-2										
CARBON DISULFIDE	000075-15-0	930						700			
CARBON TETRACHLORIDE	000056-23-5	190	0.17	LC	2	2B	190	100		6E-06	
CARBOSULFAN	055285-14-8										
CARBOXIN	005234-68-4										
CELLOSOLVE	000110-80-5							200			
Cerium Oxide	001306-38-3			IN		1		0.9			
CHLORAL HYDRATE	000302-17-0			CN		3					
CHLORAMBEN	000133-90-4										
CHLORDANE	000057-74-9	0.02	0.01	KL		2B	0.2	0.7		1E-04	EPA IRIS lists chlordane (technical) as CAS# 12789-03-6 with CAS# 57-74-9 identified as a synonym. All the tox values are listed here.
CHLORDECONE	000143-50-0			LC	2	2B					
CHLORENDIC ACID	000115-28-6				2	2B					
CHLORFENVINPHOS	000470-90-6										
CHLORINE	007782-50-5	0.15					5.8		170		
CHLORINE DIOXIDE	010049-04-4			CN			2.8	0.2			
CHLORITE, SODIUM	007758-19-2			CN		3					

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL ($\mu\text{g}/\text{m}^3$)	CREG ($\mu\text{g}/\text{m}^3$)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Reference Concentration ($\mu\text{g}/\text{m}^3$)	ATSDR Acute EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	
1-CHLORO-1,1-DIFLUOROETHANE	000075-68-3							50,000			
CHLOROACETIC ACID	000079-11-8										
2-CHLOROACETOPHENONE	000532-27-4							0.03			
4-CHLOROANILINE	000106-47-8					2B					
CHLOROBENZENE	000108-90-7			D							
CHLOROBENZILATE	000510-15-6					3					
CHLORODIFLUOROMETHANE	000075-45-6					3		50,000			
CHLOROETHANE	000075-00-3					3		10,000	40,000		
CHLOROFORM	000067-66-3	98	0.043	LI	2	2B	240		490	2.3E-05	EPA Re-Assessment Underway FY13. See EPA IRIS website for more information.
CHLOROMETHANE	000074-87-3	100		CN		3	410	90	1,000		
2-CHLORONAPHTHALENE	000091-58-7										
2-CHLOROPHENOL	000095-57-8										
4-CHLOROPHENOL	000106-48-9										
2-CHLOROPRENE	000126-99-8		0.0033	LC	2	2B		20		3E-04	
3-CHLOROPROPENE	000107-05-1			C		3		1			
CHLOROTHALONIL	001897-45-6					2B					
2-CHLOROTOLUENE	000095-49-8										
CHLOROPROPHAM	000101-21-3					3					
CHLORPYRIFOS	002921-88-2										
CHROMIUM	007440-47-3					3					An updated toxicological review is available as an external review draft (dated Sept 2010) on the EPA IRIS website. Also, see CVs for hexavalent (CAS 018540-29-9) and trivalent (CAS 016065-83-1) chromium.
CHROMIUM, HEXAVALENT	018540-29-9	0.005	8.3E-05	KL	1	1	0.005	0.1		1.2E-02	Based on EPA 1996 guidelines, chromium(VI) is classified as a known/likely human carcinogen via inhalation exposure (KL) and its carcinogenic potential cannot be determined via oral exposure (CN). See EPA IRIS.
CHROMIUM, TRIVALENT	016065-83-1			CN		3	0.1				
CHRYSENE	000218-01-9			B2		2B					
COAL TAR CREOSOTE	008001-58-9			B1	1	2A					
COAL TAR	008007-45-2		0.0016	A	1	1				6.2E-04	
COBALT	007440-48-4	0.1				2B					
COBALT-TUNGSTEN CARBIDE (Powders and Hard Metals)	HZ0900-30-T				2						
COPPER	007440-50-8			D							
COPPER CYANIDE	000544-92-3										
COUMARIN	000091-64-5					3					
CRESOL, META-	000108-39-4			C							
CRESOL, ORTHO-	000095-48-7			C							
CRESOL, PARA-	000106-44-5			C							
CRESOLS	001319-77-3										
CUMENE	000098-82-8			CN		2B		400			
CYANAZINE	021725-46-2										
CYANIDE	000057-12-5			D							

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL ($\mu\text{g}/\text{m}^3$)	CREG ($\mu\text{g}/\text{m}^3$)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Reference Concentration ($\mu\text{g}/\text{m}^3$)	ATSDR Acute EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	
CYANIDE, SODIUM	000143-33-9										
CYANOGEN	000460-19-5										
CYANOGEN CHLORIDE	000506-77-4										
CYCLOHEXANE	000110-82-7			D1				6,000			
CYCLOHEXANONE	000108-94-1					3					
CYFLUTHRIN	068359-37-5										
CYHALOTHRIN	068085-85-8										
CYPERMETHRIN	052315-07-8										
2,4-D ACID	000094-75-7										
DACTHAL	001861-32-1										
DDD, P,P'-	000072-54-8			B2		2B					
DDE, P,P'-	000072-55-9			B2		2B					
DDT, P,P'-	000050-29-3		0.01	B2	2	2B				9.7E-05	
DECABROMODIPHENYL ETHER	001163-19-5			SU		3					
DEMETON	008065-48-3										
DI(2-ETHYLHEXYL)PHTHALATE	000117-81-7			B2	2						EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.
DI-N-BUTYL PHTHALATE	000084-74-2			D							EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.
DI-N-OCTYL PHTHALATE	000117-84-0										
2,4-DIAMINOTOLUENE	000095-80-7				2	2B					
DIAZINON	000333-41-5					1	10				
DIBENZO(A,E)PYRENE	000192-65-4				2	3					
DIBENZO(A,H)ANTHRACENE	000053-70-3			B2	2	2A					
DIBENZO(A,L)PYRENE	000191-30-0				2	2A					
1,2-DIBROMO-3-CHLOROPROPANE	000096-12-8				2	2B	1.9	0.2			
DIBROMOACETIC ACID	000631-64-1										
1,4-DIBROMOBENZENE	000106-37-6										
DIBROMOCHLOROMETHANE	000124-48-1			C		3					
1,2-DIBROMOETHANE	000106-93-4		0.0017	LI	2	2A		9		6E-04	The Inhalation Unit Risk of 0.0006 ($\mu\text{g}/\text{m}^3$) ⁻¹ is the 95% upper bound value, the central tendency Inhalation Unit Risk is 0.0003 ($\mu\text{g}/\text{m}^3$) ⁻¹ .
DIBUTYL TIN DICHLORIDE	000683-18-1										
DICAMBA	001918-00-9					1					
DICHLOROACETIC ACID	000079-43-6			LI		2B					
1,2-DICHLOROBENZENE	000095-50-1			D		3					EPA Re-Assessment Underway FY13. See EPA IRIS website for more information.
1,4-DICHLOROBENZENE	000106-46-7	60			2	2B	1,200	800	12,000		EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.
1,3-DICHLOROBENZENE	000541-73-1			D		3					EPA Re-Assessment Underway FY13. See EPA IRIS website for more information.
3,3'-DICHLOROBENZIDINE	000091-94-1			B2	2	2B					
DICHLORODIFLUOROMETHANE	000075-71-8										
1,1-DICHLOROETHANE	000075-34-3			C							
1,2-DICHLOROETHANE	000107-06-2	2,400	0.038	B2	2	2B				2.6E-05	

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL ($\mu\text{g}/\text{m}^3$)	CREG ($\mu\text{g}/\text{m}^3$)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Reference Concentration ($\mu\text{g}/\text{m}^3$)	ATSDR Acute EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	
1,1-DICHLOROETHENE	000075-35-4			NS		3	79	200			Inhalation studies have been reviewed by EPA, but an EPA Inhalation RFC has not been estimated. See IRIS website for summary.
1,2-DICHLOROETHENE, CIS-	000156-59-2			IN							
1,2-DICHLOROETHENE, TRANS-	000156-60-5			IN			790		790		
2,4-DICHLOROPHENOL	000120-83-2										
4-(2,4-DICHLOROPHENOXY)BUTYRIC ACID	000094-82-6										
1,2-DICHLOROPROPANE	000078-87-5					3	32	4	230		
2,3-DICHLOROPROPANOL	000616-23-9										
2,3-DICHLOROPROPENE	000078-88-6								9.1		
1,3-DICHLOROPROPENE	000542-75-6	32	0.25	KL	2	2B	36	20		4E-06	
2,2-DICHLOROPROPIONIC ACID	000075-99-0										
DICHLORVOS	000062-73-7	0.54		B2		2B	2.7	0.5	18		
DICOFOL	000115-32-2					3					
DICROTOPHOS	000141-66-2										
DIELDRIN	000060-57-1		0.00022	B2		3				4.6E-03	
DIETHANOLAMINE	000111-42-2					3					
DIETHYL PHTHALATE	000084-66-2			D							
DIFENZOQUAT	043222-48-6										
DIFLUBENZURON	035367-38-5										
1,1-DIFLUOROETHANE	000075-37-6							40,000			
DIISOPROPYL METHYLPHOSPHONATE	001445-75-6			D							
DI METHOATE	000060-51-5										
3,3'-DIMETHOXYBENZIDINE	000119-90-4				2	2B					
DIMETHYL CARBAMYL CHLORIDE	000079-44-7				2	2A					
DIMETHYL FORMAMIDE	000068-12-2					3		30			
DIMETHYL METHYLPHOSPHONATE	000756-79-6			C							
1,4-DIMETHYL PHTHALATE	000120-61-6										
DIMETHYL PHTHALATE	000131-11-3			D							
DIMETHYL SULFATE	000077-78-1			B2	2	2A					
DIMETHYLANILINE	000121-69-7					3					
DIMETHYLARSINIC ACID	000075-60-5			D		2B					
1,1-DIMETHYLHYDRAZINE	000057-14-7				2	2B	0.49				
1,2-DIMETHYLHYDRAZINE	000540-73-8					2A					
2,6-DIMETHYLPHENOL	000576-26-1										
2,4-DIMETHYLPHENOL	000105-67-9										
4,6-DINITRO-O-CRESOL	000534-52-1										
4,6-DINITRO-O-CYCLOHEXYL PHENOL	000131-89-5										
1,3-DINITROBENZENE	000099-65-0			D		1					
2,4-DINITROPHENOL	000051-28-5										

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL ($\mu\text{g}/\text{m}^3$)	CREG ($\mu\text{g}/\text{m}^3$)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Reference Concentration ($\mu\text{g}/\text{m}^3$)	ATSDR Acute EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	
DINITROTOLUENE	025321-14-6			B2							
2,4-DINITROTOLUENE	000121-14-2					2B					
2,6-DINITROTOLUENE	000606-20-2					2B					
DINOSEB	000088-85-7			D							
1,4-DIOXANE	000123-91-1	110		LC	2	2B	720		7,200		Inhalation studies have been reviewed by EPA, but an EPA RfC has not been estimated. See IRIS website for summary.
DIPHENAMID	000957-51-7										
DIPHENYLAMINE	000122-39-4										
1,2-DIPHENYLHYDRAZINE	000122-66-7		0.0045	B2	2					2.2E-04	
DIPHENYLMETHANE DIISOCYANATE	000101-68-8			CN		3		0.6			
DIQUAT	002764-72-9										
DISODIUM ARSENATE	007778-43-0				1	1					
DISULFOTON	000298-04-4						0.2		6		
1,4-DITHIANE	000505-29-3			D							
DIURON	000330-54-1										
ENDOSULFAN	000115-29-7										
ENDOTHALL	000145-73-3										
ENDRIN	000072-20-8			D		3					
EPICHLOROHYDRIN	000106-89-8		0.83	B2	2	2A		1		1.2E-06	
EPN	002104-64-5										
1,2-EPOXYBUTANE	000106-88-7					2B		20			
EPTC	000759-94-4										
ETHEPHON	016672-87-0										
ETHION	000563-12-2										
ETHYL ACETATE	000141-78-6										
ETHYL ACRYLATE	000140-88-5					2B					
ETHYL ETHER	000060-29-7										
ETHYLBENZENE	000100-41-4	260		D		2B	8,700	1,000	22,000		
ETHYLENE GLYCOL	000107-21-1								2,000		
ETHYLENE OXIDE	000075-21-8				1	1	160				
FENAMIPHOS	022224-92-6										
FENVALERATE	051630-58-1					3					
FIBROUS GLASS AND MINERAL WOOL	H20900-22-T				2						
FLUOMETURON	002164-17-2					3					
FLUORANTHENE	000206-44-0			D		3					
FLUORENE	000086-73-7			D		3					
FLUORINE	007782-41-4								16		
FLUSILAZOLE	085509-19-9										
FOLPET	000133-07-3			B2							
FONOPHOS	000944-22-9										

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL ($\mu\text{g}/\text{m}^3$)	CREG ($\mu\text{g}/\text{m}^3$)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Reference Concentration ($\mu\text{g}/\text{m}^3$)	ATSDR Acute EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	
FORMALDEHYDE	000050-00-0	9.8	0.077	B1	1	1	37		49	1.3E-05	EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.
FUEL OIL NO. 2	068476-30-2					3			20		IARC cancer class value is for fuel oils, distillate (light).
FUEL RELATED ORGANICS	HZ0600-47-T			LI				5			The RFC and EPA cancer class are listed specifically for Diesel Engine Exhaust (EPA IRIS).
FURAN	000110-00-9				2	2B					
FURFURAL	000098-01-1					3					
GAMMA RADIATION	HZ1800-03-T				1	1					
GLYCIDYLALDEHYDE	000765-34-4			B2		2B					
GLYPHOSATE	001071-83-6			D							
HEPTACHLOR	000076-44-8		0.00077	B2		2B				1.3E-03	
HEPTACHLOR EPOXIDE	001024-57-3		0.00038	B2						2.6E-03	
HEXABROMOBENZENE	000087-82-1										
HEXACHLOROBENZENE	000118-74-1		0.0022	B2	2	2B				4.6E-04	
HEXACHLOROBUTADIENE	000087-68-3		0.045	C		3				2.2E-05	EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.
HEXACHLOROCYCLOHEXANE, ALPHA-	000319-84-6		0.00056	B2	2	2B				1.8E-03	
HEXACHLOROCYCLOHEXANE, BETA-	000319-85-7		0.0019	C	2	2B				5.3E-04	
HEXACHLOROCYCLOHEXANE, GAMMA-	000058-89-9				2	2B					
HEXACHLOROCYCLOHEXANE, TECHNICAL GRADE	000608-73-1		0.002	B2	2	2B				5.1E-04	
HEXACHLOROCYCLOPENTADIENE	000077-47-4	2.2		NO			110	0.2			
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	019408-74-3		7.7E-07	B2		3				1.3E+00	
HEXACHLOROETHANE	000067-72-1			LC	2	2B	58,000	30	58,000		
HEXACHLOROPHENE	000070-30-4					3					
HEXAMETHYL PHOSPHORAMIDE	000680-31-9				2	2B					
HEXAMETHYLENE DIISOCYANATE	000822-06-0	0.069					0.21	0.01			
HEXANE, N-	000110-54-3	2,100		IN				700			
2-HEXANONE	000591-78-6			IN				30			
HMX (CYCLOTETRAMETHYLENE TETRAHYDRO-1,3,5,7-TETRAZINE)	002691-41-0			D							
HYDRAZINE	000302-01-2		0.0002	B2	2	2B	5.2			4.9E-03	
HYDROCHLORIC ACID	007647-01-0					3		20			
HYDROGEN CYANIDE	000074-90-8			IN				0.8			
HYDROGEN FLUORIDE	007664-39-3								16		
HYDROGEN SULFIDE	007783-06-4			DI			28	2	98		
HYPOCHLORITE	014380-61-1					3					
INDENO(1,2,3-CD)PYRENE	000193-39-5			B2	2	2B					
IODINE	007553-56-2										

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL ($\mu\text{g}/\text{m}^3$)	CREG ($\mu\text{g}/\text{m}^3$)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Reference Concentration ($\mu\text{g}/\text{m}^3$)	ATSDR Acute EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	
IODINE-131	010043-66-0					1					
ISOBUTYL ALCOHOL	000078-83-1										
ISOPHORONE	000078-59-1			C							
ISOPROPYL METHYL PHOSPHONATE	005514-35-2										
ISOPROPYL PHENYL CARBAMATE	000122-42-9					3					
JP-4	050815-00-4						9,000				
JP-5/JP-8	HZ0600-26-T						3,000				
JP-7	HZ0600-22-T	300				3					
KEROSENE	008008-20-6					3	10				IARC cancer class value is for fuel oils, distillate (light).
LEAD	007439-92-1			B2	2	2B					
LEAD ACETATE	000301-04-2				2	2A					
LEAD PHOSPHATE	007446-27-7				2	2A					
M-PHENYLENEDIAMINE	000108-45-2					3					
M-XYLENE	000108-38-3										Refer to MRLs and Comparison Values for total xylenes (CASRN 1330-20-7).
MALATHION	000121-75-5					3	20		200		
MALEIC ANHYDRIDE	000108-31-6										
MANEB	012427-38-2					3					
MANGANESE	007439-96-5	0.3		D				0.05			
MEPIQUAT CHLORIDE	024307-26-4										
MERCURIC CHLORIDE	007487-94-7			C		3					
MERCURY	007439-97-6	0.2		D		3		0.3			
MERPHOS	000150-50-5										
METHACRYLONITRILE	000126-98-7										
METHAMIDOPHOS	010265-92-6										
METHANOL	000067-56-1										EPA Re-Assessment Underway FY13. See EPA IRIS website for more information.
METHIDATHION	000950-37-8			C							
METHOMYL	016752-77-5										
1-METHOXY-2-PROPANOL	000107-98-2							2,000			
METHOXYCHLOR	000072-43-5			D		3					
METHOXYETHANOL	000109-86-4							20			
METHYL ISOBUTYL KETONE	000108-10-1			D1				3,000			
METHYL METHACRYLATE	000080-62-6			NO		3		700			
METHYL PARATHION	000298-00-0					3					
4-(2-METHYL-4-CHLOROPHENOXY) BUTYRIC ACID	000094-81-5										
2-METHYL-4-CHLOROPHENOXYACETIC ACID	000094-74-6										
METHYL-T-BUTYL ETHER	001634-04-4	2,500				3	2,500	3,000	7,200		
2-METHYLAZIRIDINE	000075-55-8				2	2B					
5-METHYLCHRYSENE	003697-24-3				2	2B					

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL ($\mu\text{g}/\text{m}^3$)	CREG ($\mu\text{g}/\text{m}^3$)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Reference Concentration ($\mu\text{g}/\text{m}^3$)	ATSDR Acute EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	
METHYLENE CHLORIDE	000075-09-2	1,000	100	LC	2	2B	1,000	600	2,100	1E-08	Pls Note: The inhalation unit risk (IRIS, 2011) is (1.0e-03 $\mu\text{g}/\text{m}^3$) ⁻¹ . Air CREG is 100 $\mu\text{g}/\text{m}^3$.
4,4'-METHYLENEBIS(2-CHLOROANILINE)	000101-14-4				2	1					
4,4'-METHYLENEDIANILINE	000101-77-9				2	2B					
4,4'-(1-METHYLETHYLIDENE)BIS-PHENOL	000080-05-7										
METHYLMERCURY	022967-92-6			C		2B					
1-METHYLNAPHTHALENE	000090-12-0										
2-METHYLNAPHTHALENE	000091-57-6			DI							
METOLACHLOR	051218-45-2			C							
METIBUZIN	021087-64-9			D							
MIREX	002385-85-5				2	2B					
MOLINATE	002212-67-1										
MOLYBDENUM	007439-98-7										
MONOCHLORAMINE	010599-90-3			D		3					
MONOMETHYLARSONIC ACID	000124-58-3					2B					
N-NITROSO-N-METHYLURETHANE	000615-53-2					2B					
N-NITROSODI-N-PROPYLAMINE	000621-64-7			B2	2	2B					
N-NITROSODIETHYLAMINE	000055-18-5		2.3E-05	B2	2	2A				4.3E-02	
N-NITROSODIMETHYLAMINE	000062-75-9		7.1E-05	B2	2	2A				1.4E-02	
N-NITROSODIPHENYLAMINE	000086-30-6			B2		3					
NALED	000300-76-5										
NAPHTHALENE	000091-20-3	3.7		CN	2	2B		3			An updated literature search (dated Dec 2010) is available on the EPA IRIS website.
NICKEL	007440-02-0	0.09			2	2B	0.2				
NICKEL SUBSULFIDE	012035-72-2		0.0021	A	1	1				4.8E-04	
NITRATE	014797-55-8										
NITRATE AND NITRITE	HZ2100-10-T					2A					
NITRILOTRIACETIC ACID	000139-13-9				2	2B					
NITRITE	014797-65-0										
NITROBENZENE	000098-95-3		0.025	LC		2B		9		4E-05	
NITROGLYCERINE	000055-63-0										
NITROGUANIDINE	000056-88-7			D							
4-NITROPHENOL	000100-02-7										
2-NITROPROPANE	000079-46-9				2	2B		20			
NITROSOMORPHOLINE	000059-89-2				2	2B					
2-NITROTOLUENE	000088-72-2				2						
OCTABROMODIPHENYL ETHER	032536-52-0			D							This is a type of PBDE. Refer to the MRLs listed under CAS# 032534-81-9, (PBDEs, lower brominated).
ORYZALIN	019044-88-3			C							
OXADIAZON	019666-30-9										
OXAMYL	023135-22-0										
OXYFLUORFEN	042874-03-3										

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL ($\mu\text{g}/\text{m}^3$)	CREG ($\mu\text{g}/\text{m}^3$)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Reference Concentration ($\mu\text{g}/\text{m}^3$)	ATSDR Acute EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	
P-CHLOROTOLUENE	000106-43-4			D							Refer to MRLs and Comparison Values for total xylenes (CASRN 1330-20-7).
P-XYLENE	000106-42-3										
PARAQUAT DICHLORIDE	001910-42-5			C							
PARATHION	000056-38-2			C		3					
PENDIMETHALIN	040487-42-1										
PENTACHLOROBENZENE	000608-93-5			D							
2,3,4,7,8-PENTACHLORODIBENZOFURAN	057117-31-4					1					
PENTACHLORONITROBENZENE	000082-68-8					3					
PENTACHLOROPHENOL	000087-86-5			LC		2B					
PERCHLORATE	014797-73-0			NL							
PERMETHRIN	052645-53-1					3					
PHENANTHRENE	000085-01-8			D		3					
PHENOL	000108-95-2			DI		3					
PHENYL MERCURIC ACETATE	000062-38-4										
PHOSGENE	000075-44-5			IN				0.3			
PHOSPHINE	007803-51-2			D				0.3			
PHOSPHORIC ACID	007664-38-2							10			
PHOSPHORUS, WHITE	007723-14-0			D					20		
PHOSPHORUS-32	014596-37-3					1					
PHTHALIC ANHYDRIDE	000085-44-9										
PLUTONIUM-239	015117-48-3					1					
POLYBROMINATED BIPHENYLS	067774-32-7				2	2B					
POLYBROMINATED DIPHENYL ETHERS	032534-81-9			D			6				These MRLs also include octa-BDE, CAS #: 32536-52-0. See PBB/PBDE Tox Profile for discussion.
POLYCHLORINATED BIPHENYLS	001336-36-3		0.01	B2	2	2A				1E-04	EPA Re-Assessment Underway FY13. See EPA IRIS website for more information. The IUR is based on the upper-bound unit risk.
POLYMETHYLENE POLYPHENYLISOCYANATE	009016-87-9			CN		3		0.6			RfC also applies to CAS #101-68-8 (EPA IRIS).
POTASSIUM CYANIDE	000151-50-8										
POTASSIUM SILVER CYANIDE	000506-61-6										
PROMETON	001610-18-0										
PROMETRYN	007287-19-6										
PRONAMIDE	023950-58-5										
PROPACHLOR	001918-16-7										
PROPANIL	000709-98-8										
PROPARGITE	002312-35-8										
PROPAZINE	000139-40-2										
PROPOXUR	000114-26-1										
PROPYLENE GLYCOL	000057-55-6						28				
PROPYLENE GLYCOL DINITRATE	006423-43-4	0.27					0.27		20		
PROPYLENE OXIDE	000075-56-9		0.27	B2	2	2B		30		3.7E-06	
PURSUIT	081335-77-5										

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL ($\mu\text{g}/\text{m}^3$)	CREG ($\mu\text{g}/\text{m}^3$)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Reference Concentration ($\mu\text{g}/\text{m}^3$)	ATSDR Acute EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	
PYRENE	000129-00-0			D		3					
PYRIDINE	000110-86-1					3					
RADIUM	007440-14-4					1					
RADIUM-224 AND DAUGHTERS	HZ1800-60-T					1					
RADIUM-226 AND DAUGHTERS	HZ1800-61-T					1					
RADIUM-226/228	HZ1800-20-T					1					
RADIUM-228 AND DAUGHTERS	HZ1800-62-T					1					
RADON	010043-92-2				1	1					
RDX (Cyclonite)	000121-82-4			C							
REFRACTORY CERAMIC FIBERS	HZ0900-26-T			B2	2	2B					Chronic inhalation MRL = 0.03 fibers/cc. See Synthetic Vitreous Fibers Toxicological Profile for more info.
RESMETHRIN	010453-86-8										
ROTENONE	000083-79-4										
S,S,S-TRIBUTYL PHOSPHOTRITHIOATE	000078-48-8										
SELENIOS ACID	007783-00-8			D		3					
SELENIUM	007782-49-2			D		3					
SELENIUM SULFIDE	007446-34-6			B2	2	3					
SILICA, AMORPHOUS	007631-86-9				1	3					
SILVER	007440-22-4			D							
SILVER CYANIDE	000506-64-9										
SIMAZINE	000122-34-9					3					
SODIUM AZIDE	026628-22-8										
SODIUM BROMATE	007789-38-0										
SODIUM DIETHYLDITHIOCARBAMATE	000148-18-5					3					
SODIUM FLUORIDE	007681-49-4					3					
SODIUM FLUOROACETATE	000062-74-8										
STRONTIUM	007440-24-6										
STRONTIUM CHROMATE(VI)	007789-06-2				1	1					IARC cancer class is for chromium and chromium compounds.
STRYCHNINE	000057-24-9										
STYRENE	000100-42-5	850			2	2B		1,000	21,000		
SULFOTEP	003689-24-5										
SULFUR DIOXIDE	007446-09-5					3			26		
SULFUR MUSTARD	000505-60-2				1	1	0.02		0.7		
2,4,5-T	000093-76-5										
TEBUTHIURON	034014-18-1										
TERBACIL	005902-51-2										
TERBUFOS	013071-79-9										
TERBUTRYN	000886-50-0										
1,2,4,5-TETRACHLOROBENZENE	000095-94-3										

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL ($\mu\text{g}/\text{m}^3$)	CREG ($\mu\text{g}/\text{m}^3$)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Reference Concentration ($\mu\text{g}/\text{m}^3$)	ATSDR Acute EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	001746-01-6				1	1					EPA Cancer Re-Assessment currently underway. See EPA IRIS website for more information.
1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN	030746-58-8					3					
1,1,1,2-TETRACHLOROETHANE	000630-20-6		0.14	C		3				7.4E-06	
1,1,2,2-TETRACHLOROETHANE	000079-34-5			LC		3					Inhalation studies have been reviewed by EPA, but an EPA Inhalation RFC has not been estimated. See IRIS website for summary.
TETRACHLOROETHYLENE	000127-18-4	270	3.8	LC	2	2A		40	1,400	2.6E-07	
2,3,4,6-TETRACHLOROPHENOL	000058-90-2										
TETRAETHYL LEAD	000078-00-2					3					
1,1,1,2-TETRAFLUOROETHANE	000811-97-2							80,000			
TETRAHYDROFURAN	000109-99-9			SU				2,000			
THALLIUM	007440-28-0										
THALLIUM ACETATE	000563-68-8			IN							
THALLIUM CARBONATE	006533-73-9			IN							
THALLIUM NITRATE	010102-45-1			IN							
THALLIUM SULFATE	007446-18-6			IN							
THIOACETAMIDE	000062-55-5				2	2B					
THIOBENCARB	028249-77-6										
THIOUREA	000062-56-6				2	3					
THIRAM	000137-26-8					3					
THORIUM	007440-29-1					1					IARC cancer class is for Thorium-232.
TIN	007440-31-5										
TITANIUM TETRACHLORIDE	007550-45-0	0.1					10				
TOLUENE	000108-88-3	300		IN		3		5,000	3,800		
TOLUENE DIISOCYANATE (N.O.S)	026471-62-5				2	2B		0.07			
TOXAPHENE	008001-35-2		0.0031	B2	2	2B				3.2E-04	
2,4,5-TP ACID	000093-72-1			D							
1,2,4-TRIBROMOBENZENE	000615-54-3										
TRIBUTOXYETHYL PHOSPHATE	000078-51-3										
TRIBUTYL PHOSPHATE	000126-73-8										
TRIBUTYL TIN OXIDE	000056-35-9			CN							
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	000076-13-1										
TRICHLOROACETIC ACID	000076-03-9			SU		3					
1,3,5-TRICHLOROBENZENE	000108-70-3										
1,2,4-TRICHLOROBENZENE	000120-82-1			D							
1,1,2-TRICHLOROETHANE	000079-00-5		0.063	C		3				1.6E-05	
1,1,1-TRICHLOROETHANE	000071-55-6			IN		3	3,800	5,000	11,000		
TRICHLOROETHYLENE	000079-01-6	2	0.24	CH	2	2A		2		4.1E-06	
TRICHLOROFLUOROMETHANE	000075-69-4										
(TRICHLOROMETHYL)BENZENE	000098-07-7			B2	2	2A					

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL ($\mu\text{g}/\text{m}^3$)	CREG ($\mu\text{g}/\text{m}^3$)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Reference Concentration ($\mu\text{g}/\text{m}^3$)	ATSDR Acute EMEG/MRL ($\mu\text{g}/\text{m}^3$)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	
2,4,5-TRICHLOROPHENOL	000095-95-4										
2,4,6-TRICHLOROPHENOL	000088-06-2		0.32	B2	2					3.1E-06	
1,2,3-TRICHLOROPROPANE	000096-18-4			LC	2	2A		0.3	1.8		
1,1,2-TRICHLOROPROPANE	000598-77-6										
TRIETHANOLAMINE	000102-71-6					3					
TRIETHYLAMINE	000121-44-8							7			
TRIFLURALIN	001582-09-8			C		3					
1,3,5-TRINITROBENZENE	000099-35-4										
2,4,6-TRINITROTOLUENE	000118-96-7			C		3					
TRIS(2-BUTOXYETHYL)PHOSPHATE	000078-51-3										
TRIS(1,3-DICHLORO-2-PROPYL)PHOSPHATE	013674-87-8										
TRIS(2,3-DIBROMOPROPYL)PHOSPHATE	000126-72-7				2	2A					
TRIS(2-CHLOROETHYL)PHOSPHATE	000115-96-8					3					
URANIUM	007440-61-1										
URANIUM, INSOLUBLE COMPOUNDS	HZ1800-92-T	0.8					2				
URANIUM, MODERATELY SOLUBLE SALTS	HZ1800-91-T										
URANIUM, SOLUBLE SALTS	HZ1800-90-T	0.04					0.1				
URETHANE, SOLIDIFIED	000051-79-6				2	2A					
VANADIUM	007440-62-2	0.1							0.8		
VANADIUM PENTOXIDE	001314-62-1					2B					Under EPA Re-Assessment FY13. See EPA IRIS website for more information.
VERNOLATE	001929-77-7										
VINCLOZOLIN	050471-44-8										
VINYL ACETATE	000108-05-4					2B	35	200			
VINYL BROMIDE	000593-60-2				2	2A		3			
VINYL CHLORIDE	000075-01-4		0.11	KL	1	1	77	100	1,300	8.8E-06	Oral CSF and IUR are based on continuous lifetime exposures since birth. See EPA IRIS website for more information.
WARFARIN	000081-81-2										
XYLENES, TOTAL	001330-20-7	220		D1		3	2,600	100	8,700		
3,4-XYLENOL	000095-65-8										
ZINC	007440-66-6			IN							
ZINC CYANIDE	000557-21-1										
ZINEB	012122-67-7					3					

Air Comparison Values in ppb (for Volatile Organic Compounds Only) from ATSDR's Sequoia Database
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SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL (ppb)	CREG (ppb)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL (ppb)	EPA Reference Concentration (ppb)	ATSDR Acute EMEG/MRL (ppb)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	
ACETONE	000067-64-1	13,000		D1			13,000		26,000		
ACROLEIN	000107-02-8			D1		3	0.04	0.0087	3		
ACRYLONITRILE	000107-13-1		0.0068	B1	2	2B		0.92	100	6.8E-05	EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.
AMMONIA	007664-41-7	100						140	1,700		Under EPA Re-Assessment FY13. See EPA IRIS website for more information.
AUTOMOTIVE GASOLINE	008006-61-9					2B					
BENZENE	000071-43-2	3	0.04	KL	1	1	6	9.4	9	7.8E-06	Inhal Unit Risk ranges from 2.2×10^{-6} to 7.8×10^{-6} ($\mu\text{g}/\text{m}^3$) ⁻¹ .
BENZYL CHLORIDE	000100-44-7			B2		2A					
BIS(2-CHLORO-1-METHYLETHYL) ETHER	000108-60-1					3					
BIS(2-CHLOROETHYL) ETHER	000111-44-4		0.00052	B2		3	20			3.3E-04	
BIS(CHLOROMETHYL) ETHER	000542-88-1		3.4E-06	A	1	1	0.3			6.2E-02	
BROMOCHLOROMETHANE	000074-97-5			D							
BROMODICHLOROMETHANE	000075-27-4			B2	2	2B					
BROMOFORM	000075-25-2		0.088	B2		3				1.1E-06	
BROMOMETHANE	000074-83-9	5		D		3	50	1.3	50		
1,3-BUTADIENE	000106-99-0		0.015	CA	1	1		0.9		3E-05	
2-BUTANONE	000078-93-3			D1				1,700			
2-BUTOXYETHANOL	000111-76-2	200		NC		3	3,000	330	6,000		
CARBON DISULFIDE	000075-15-0	300						220			
CARBON TETRACHLORIDE	000056-23-5	30	0.026	LC	2	2B	30	16		6E-06	
CHLORINE DIOXIDE	010049-04-4			CN			1	0.072			
CHLOROBENZENE	000108-90-7			D							
CHLORODIFLUOROMETHANE	000075-45-6					3		14,000			
CHLOROETHANE	000075-00-3					3		3,800	15,000		
CHLOROFORM	000067-66-3	20	0.0089	LI	2	2B	50		100	2.3E-05	EPA Re-Assessment Underway FY13. See EPA IRIS website for more information.
CHLOROMETHANE	000074-87-3	50		CN		3	200	44	500		
CUMENE	000098-82-8			CN		2B					
CYCLOHEXANONE	000108-94-1					3					
DECA-BROMODIPHENYL ETHER	001163-19-5			SU		3					
1,2-DIBROMO-3-CHLOROPROPANE	000096-12-8				2	2B	0.2	0.021			
DIBROMOCHLOROMETHANE	000124-48-1			C		3					
1,2-DIBROMOETHANE	000106-93-4		0.00022	LI	2	2A		1.2		6E-04	The Inhalation Unit Risk of 0.0006 ($\mu\text{g}/\text{m}^3$) ⁻¹ is the 95% upper bound value, the central tendency Inhalation Unit Risk is 0.0003 ($\mu\text{g}/\text{m}^3$) ⁻¹ .
1,4-DICHLOROBENZENE	000106-46-7	10			2	2B	200	130	2,000		EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.
1,2-DICHLOROBENZENE	000095-50-1			D		3					EPA Re-Assessment Underway FY13. See EPA IRIS website for more information.

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL (ppb)	CREG (ppb)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL (ppb)	EPA Reference Concentration (ppb)	ATSDR Acute EMEG/MRL (ppb)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3)^{-1}$	
1,3-DICHLOROBENZENE	000541-73-1			D		3					EPA Re-Assessment Underway FY13. See EPA IRIS website for more information.
DICHLORODIFLUOROMETHANE	000075-71-8										
1,1-DICHLOROETHANE	000075-34-3			C							
1,2-DICHLOROETHANE	000107-06-2	600	0.0095	B2	2	2B				2.6E-05	
1,1-DICHLOROETHENE	000075-35-4			NS		3	20	50			
1,2-DICHLOROETHENE, CIS-	000156-59-2			IN							Inhalation studies have been reviewed by EPA, but an EPA Inhalation RfC has not been estimated. See IRIS website for summary.
1,2-DICHLOROETHENE, TRANS-	000156-60-5			IN			200		200		
1,2-DICHLOROPROPANE	000078-87-5					3	7	0.87	50		
2,3-DICHLOROPROPENE	000078-88-6								2		
1,3-DICHLOROPROPENE	000542-75-6	7	0.055	KL	2	2B	8	4.4		4E-06	
DICHLORVOS	000062-73-7	0.06		B2		2B	0.3	0.055	2		
DIMETHYL FORMAMIDE	000068-12-2					3		10			
DIMETHYLARSINIC ACID	000075-60-5			D		2B					
1,1-DIMETHYLHYDRAZINE	000057-14-7				2	2B	0.2				
1,2-DIMETHYLHYDRAZINE	000540-73-8					2A					
1,4-DIOXANE	000123-91-1	30		LC	2	2B	200		2,000		Inhalation studies have been reviewed by EPA, but an EPA RfC has not been estimated. See IRIS website for summary.
ETHYLBENZENE	000100-41-4	60		D		2B	2,000	230	5,000		
ETHYLENE GLYCOL	000107-21-1								790		
ETHYLENE OXIDE	000075-21-8				1	1	90				
FLUORINE	007782-41-4								10		
FORMALDEHYDE	000050-00-0	8	0.063	B1	1	1	30		40	1.3E-05	EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.
HEXACHLOROBUTADIENE	000087-68-3		0.0043	C		3				2.2E-05	EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.
HEXACHLOROCYCLOPENTADIENE	000077-47-4	0.2		NO			10	0.018			
HEXACHLOROETHANE	000067-72-1			LC	2	2B	6,000	3.1	6,000		
HEXAMETHYLENE DIISOCYANATE	000822-06-0	0.01					0.03	0.0015			
HEXANE, N-	000110-54-3	600		IN				200			
HYDRAZINE	000302-01-2		0.00016	B2	2	2B	4			4.9E-03	
HYDROGEN CYANIDE	000074-90-8			IN				0.72			
HYDROGEN FLUORIDE	007664-39-3								20		
HYDROGEN SULFIDE	007783-06-4			DI			20	1.4	70		
METHYL ISOBUTYL KETONE	000108-10-1			DI				730			
METHYL-T-BUTYL ETHER	001634-04-4	700				3	700	830	2,000		
METHYLENE CHLORIDE	000075-09-2	300	29	LC	2	2B	300	170	600	1E-08	Pls Note: The inhalation unit risk (IRIS, 2011) is (1.0e-08 $\mu\text{g}/\text{m}^3$) ⁻¹ . Air CREG is 100 $\mu\text{g}/\text{m}^3$.
MONOMETHYLARSONIC ACID	000124-58-3					2B					
NAPHTHALENE	000091-20-3	0.7		CN	2	2B		0.57			An updated literature search (dated Dec 2010) is available on the EPA IRIS website.
NITROBENZENE	000098-95-3		0.005	LC		2B		1.8		4E-05	

SUBSTANCE NAME	CAS ID	Hierarchy Level 1		Cancer Class			Hierarchy Level 2		Additional Health Guidelines		COMMENTS
		ATSDR Chronic EMEG/MRL (ppb)	CREG (ppb)	EPA IRIS	DHHS (NTP)	IARC	ATSDR Intermediate EMEG/MRL (ppb)	EPA Reference Concentration (ppb)	ATSDR Acute EMEG/MRL (ppb)	EPA Inhalation Unit Risk ($\mu\text{g}/\text{m}^3\text{-}1$)	
OCTABROMODIPHENYL ETHER	032536-52-0			D							This is a type of PBDE. Refer to the MRLs listed under CAS# 032534-81-9, (PBDEs, lower brominated).
PHOSGENE	000075-44-5			IN				0.074			
PROPYLENE GLYCOL	000057-55-6						9				
PROPYLENE GLYCOL DINITRATE	006423-43-4	0.04					0.04		3		
STYRENE	000100-42-5	200			2	2B		230	5,000		
SULFUR DIOXIDE	007446-09-5					3			10		
1,2,4,5-TETRACHLOROBENZENE	000095-94-3										
1,1,2,2-TETRACHLOROETHANE	000079-34-5			LC		3					Inhalation studies have been reviewed by EPA, but an EPA Inhalation RFC has not been estimated. See IRIS website for summary.
1,1,1,2-TETRACHLOROETHANE	000630-20-6		0.02	C		3				7.4E-06	
TETRACHLOROETHYLENE	000127-18-4	40	0.57	LC	2	2A		5.9	200	2.6E-07	
TOLUENE	000108-88-3	80		IN		3		1,300	1,000		
TOLUENE DIISOCYANATE (N.O.S)	026471-62-5				2	2B		0.0098			
1,2,4-TRIBROMOBENZENE	000615-54-3										
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	000076-13-1										
1,1,2-TRICHLOROETHANE	000079-00-5		0.011	C		3				1.6E-05	
1,1,1-TRICHLOROETHANE	000071-55-6			IN		3	700	920	2,000		
TRICHLOROETHYLENE	000079-01-6	0.37	0.045	CH	2	2A		0.37		4.1E-06	
TRICHLOROFLUOROMETHANE	000075-69-4										
1,2,3-TRICHLOROPROPANE	000096-18-4			LC	2	2A		0.05	0.3		
VINYL ACETATE	000108-05-4					2B	10	57			
VINYL BROMIDE	000593-60-2				2	2A		0.69			
VINYL CHLORIDE	000075-01-4		0.044	KL	1	1	30	39	500	8.8E-06	Oral CSF and IUR are based on continuous lifetime exposures since birth. See EPA IRIS website for more information.
XYLENES, TOTAL	001330-20-7	50		DI		3	600	23	2,000		

Drinking Water Comparison Values from ATSDR's Sequoia Database

March 2013

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2				Hierarchy Level 3			COMMENTS
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)	MCLG (ppb)	
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult				
ACENAPHTHENE	000083-32-9						3	6,000	21,000	600	2,100				
ACEPHATE	030560-19-1			4	C					40	140				
ACETALDEHYDE	000075-07-0				B2	2	2B								EPA Re-Assessment Underway FY13. See EPA IRIS website for more information.
ACETAMIDE	000060-35-5						2B								
ACETOCHLOR	034256-82-1									200	700				
ACETONE	000067-64-1				DI			20,000	70,000	9,000	32,000				
ACETONITRILE	000075-05-8				CN										
ACETOPHENONE	000098-86-2				D					1,000	3,500				
2-ACETYLAMINOFLUORENE	000053-96-3					2									
ACROLEIN	000107-02-8				DI		3	40	140	5	18				
ACRYLAMIDE	000079-06-1	10	35	0.07	LC	2	2A	10	35	20	70			0	
ACRYLIC ACID	000079-10-7						3			5,000	18,000				
ACRYLONITRILE	000107-13-1	400	1,400	0.065	B1	2	2B	100	350						EPA Re-Assessment Underway FY13/14 See EPA IRIS website for more information.
ALACHLOR	015972-60-8									100	350		2	0	
ALAR	001596-84-5									1,500	5,300				
ALDICARB	000116-06-3				D		3			10	35	7	3	1	The MCL value for any combination of 2 or more of these chemicals (aldicarb, aldicarb sulfone, and aldicarb sulfoxide) should not exceed 7 ppb because of a similar mode of action (EPA 2004 DWHA).
ALDICARB SULFONE	001646-88-4									10	35	7	2	1	The MCL value for any combination of 2 or more of these chemicals (aldicarb, aldicarb sulfone, and aldicarb sulfoxide) should not exceed 7 ppb because of a similar mode of action (EPA 2004 DWHA).
ALDICARB SULFOXIDE	001646-87-3											7	4	1	The MCL value for any combination of 2 or more of these chemicals (aldicarb, aldicarb sulfone, and aldicarb sulfoxide) should not exceed 7 ppb because of a similar mode of action (EPA 2004 DWHA).
ALDRIN	000309-00-2	0.3	1.1	0.0021	B2		3			0.3	1.1				
ALLYL ALCOHOL	000107-18-6									50	180				
ALPHA RADIATION	012587-46-1						1						15	0	Units in picocuries/liter (pCi/L)
ALUMINUM	007429-90-5	10,000	35,000					10,000	35,000						
ALUMINUM PHOSPHIDE	020859-73-8									4	14				
AMETRYN	000834-12-8									90	320	60			
4-AMINO-3,5,6-TRICHLOROPICOLINIC ACID	001918-02-1						3			700	2,500		500	500	
4-AMINOBIPHENYL	000092-67-1					1	1								
AMINOTRIAZOLE	000061-82-5					2	3								

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2				Hierarchy Level 3			COMMENTS
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)	MCLG (ppb)	
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult				
AMMONIA	007664-41-7											33,000			Under EPA Re-Assessment FY13. See EPA IRIS website for more information.
ANILINE	000062-53-3			6.1	B2		3								
ANTHRACENE	000120-12-7				D		3	100,000	350,000	3,000	11,000				
ANTIMONY	007440-36-0									4	14	6	6	6	
ANTIMONY TRIOXIDE	001309-64-4						2B								
ARAMITE	000140-57-8			1.4	B2		2B								
AROCLOR 1016	012674-11-2									0.7	2.5				Aroclor is a commercial mixture of PCBs. EPA Re-Assessment of PCBs Underway FY13. See EPA IRIS website for more information.
AROCLOR 1254	011097-69-1	0.2	0.7			2		0.3	1.1	0.2	0.7				Aroclor is a commercial mixture of PCBs. EPA Re-Assessment of PCBs Underway FY13. See EPA IRIS website for more information.
AROCLOR 1260	011096-82-5					2									Aroclor is a commercial mixture of PCBs. EPA Re-Assessment of PCBs Underway FY13. See EPA IRIS website for more information.
ARSENIC	007440-38-2	3	11	0.023	A	1	1			3	11		10	0	An updated toxicological review (inorganic arsenic and cancer) is available as an external review draft (dated Feb 2010) on the EPA IRIS website.
ARSINE	007784-42-1														
ASBESTOS	001332-21-4				A	1	1						7	7	MCL/MCLG: The units for asbestos are millions of fibers per liter in water.
ASSURE	076578-14-8				D					90	320				
ATRAZINE	001912-24-9						3	30	110	350	1,200		3	3	
AUTOMOTIVE GASOLINE	008006-61-9						2B								
AZINPHOS-METHYL	000086-50-0	30	110					30	110						
AZO BENZENE	000103-33-3			0.32	B2		3								
BARIUM	007440-39-3	2,000	7,000		CN			2,000	7,000	2,000	7,000		2,000	2,000	Based on EPA 1996 cancer assessment guidelines, barium is classified as not likely to be carcinogenic to humans via oral exposure (NO) and its carcinogenic potential can not be determined via inhalation (CN).
BENFLURALIN	001861-40-1									3,000	11,000				
BENOMYL	017804-35-2									500	1,800				
BENTAZON	025057-89-0				NO					300	1,100	200			
BENZALDEHYDE	000100-52-7									1,000	3,500				
BENZENE	000071-43-2	5	18	0.64	KL	1	1			40	140	3	5	0	Oral slope factor ranges from 0.015 - 0.055 (mg/kg/day)-1.
BENZIDINE	000092-87-5			0.00015	A	1	1			30	110				
BENZO(A)ANTHRACENE	000056-55-3				B2	2	2B								
BENZO(A)PYRENE	000050-32-8			0.0048	B2	2	1						0.2	0	Under Re-Assessment by EPA FY13. See EPA IRIS website for more information.
BENZO(B)FLUORANTHENE	000205-99-2				B2	2	2B								
BENZO(GHI)PERYLENE	000191-24-2				D		3								
BENZO(J)FLUORANTHENE	000205-82-3					2	2B								

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2					Hierarchy Level 3		COMMENTS
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)	MCLG (ppb)	
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult				
BENZO(K)FLUORANTHENE	000207-08-9				B2	2	2B								
2,3-BENZOFURAN	000271-89-6						2B								
BENZOIC ACID	000065-85-0				D					40,000	140,000				
BENZYL CHLORIDE	000100-44-7			0.21	B2		2A								
BERYLLIUM	007440-41-7	20	70		KL	1	1			20	70		4	4	Based on EPA 1996 guidelines, beryllium is classified as a known/likely human carcinogen via inhalation exposure (KL) and its carcinogenic potential cannot be determined via oral exposure (CN). See EPA IRIS.
BETA RADIATION	012587-47-2						1						4	0	Units for MCL are millirems/year
BETA-NAPHTHYLAMINE	000091-59-8					1	1								
BIPHENYL	000092-52-4				D					500	1,800				
BIS(2-CHLORO-1-METHYLETHYL) ETHER	000108-60-1						3			400	1,400	300			
BIS(2-CHLOROETHYL) ETHER	000111-44-4			0.032	B2		3								
BIS(2-ETHYLHEXYL)ADIPATE	000103-23-1			29	C		3			6,000	21,000	400	400	400	
BIS(CHLOROMETHYL) ETHER	000542-88-1			0.00016	A	1	1								
BORON	007440-42-8				DI			2,000	7,000	2,000	7,000	6,000			
BROMACIL	000314-40-9											70			
BROMATE	015541-45-4			0.05	KL					40	140		10	0	Based on EPA 1996 guidelines, bromate is classified as a known/likely human carcinogen via oral exposure (KL) and its carcinogenic potential cannot be determined via inhalation exposure (CN).
BROMIC ACID, POTASSIUM SALT	007758-01-2						2B								
BROMOACETIC ACID	000079-08-3												60		MCL is for total of 5 haloacetic acids (monochloroacetic acid, dichloroacetic acid, trichloroacetic acid, bromoacetic acid, & dibromoacetic acid).
BROMOBENZENE	000108-86-1				IN					80	280	60			
BROMOCHLOROMETHANE	000074-97-5				D							90			
BROMODICHLOROMETHANE	000075-27-4	200	700	0.56	B2	2	2B			200	700		80	0	MCL is for total trihalomethanes (sum of the concentrations of chloroform, bromodichloromethane, chlorodibromomethane, and bromoform).
BROMOFORM	000075-25-2	200	700	4.4	B2		3	2,000	7,000	200	700		80	0	MCL is for total trihalomethanes (sum of the concentrations of chloroform, bromodichloromethane, chlorodibromomethane, and bromoform).
BROMOMETHANE	000074-83-9				D		3	30	110	14	49	10			
1,3-BUTADIENE	000106-99-0				CA	1	1								
BUTANOL	000071-36-3				D					1,000	3,500				
2-BUTANONE	000078-93-3				DI					6,000	21,000	4,000			
2-BUTOXYETHANOL	000111-76-2				NC		3	700	2,500	1,000	3,500				
BUTYL BENZYL PHTHALATE	000085-68-7				C		3			2,000	7,000				
BUTYLATE	002008-41-5									500	1,800	400			
CADMIUM	007440-43-9	1	3.5		B1	1	1	5	18	5	18	5	5	5	

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2					Hierarchy Level 3		COMMENTS
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)	MCLG (ppb)	
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult				
CALCIUM CYANIDE	000592-01-8									10	35				
CAPROLACTAM	000105-60-2						4			5,000	18,000				
CAPTAFOL	002425-06-1					2	2A			20	70				
CAPTAN	000133-06-2						3			1,300	4,600				
CARBARYL	000063-25-2						3			1,000	3,500				
CARBAZOLE	000086-74-8						2B								
CARBOFURAN	001563-66-2									50	180		40	40	
CARBON DISULFIDE	000075-15-0									1,000	3,500				
CARBON TETRACHLORIDE	000056-23-5			0.5	LC	2	2B	70	250	40	140	30	5	0	
CARBOSULFAN	055285-14-8									100	350				
CARBOXIN	005234-68-4									1,000	3,500	700			
CELLOSOLVE	000110-80-5														
Cerium Oxide	001306-38-3				IN		1								
CHLORAL HYDRATE	000302-17-0				CN		3			1,000	3,500				
CHLORAMBEN	000133-90-4									150	530	100			
CHLORDANE	000057-74-9	6	21	0.1	KL		2B	6	21	5	18	4	2	0	EPA IRIS lists chlordane (technical) as CAS# 12789-03-6 with CAS# 57-74-9 identified as a synonym. All the tox values are listed here.
CHLORDECONE	000143-50-0	5	18	0.0035	LC	2	2B	5	18	3	11				
CHLORENDIC ACID	000115-28-6					2	2B								
CHLORFENVINPHOS	000470-90-6	7	25					20	70						
CHLORINE	007782-50-5									1,000	3,500	4,000	4,000	4,000	MCL and MCLG are actually Maximum Residual Disinfectant Levels and Maximum Residual Disinfectant Levels (MRDL and MRDLG), similar to MCL/MCLG.
CHLORINE DIOXIDE	010049-04-4				CN					300	1,100	800	800	800	MCL and MCLG are actually Maximum Residual Disinfectant Levels and Maximum Residual Disinfectant Levels (MRDL and MRDLG), similar to MCL/MCLG.
CHLORITE, SODIUM	007758-19-2				CN		3	1,000	3,500	300	1,100	800	1,000	800	
1-CHLORO-1,1-DIFLUOROETHANE	000075-68-3														
CHLOROACETIC ACID	000079-11-8											70	60	70	MCL is for total of 5 haloacetic acids (monochloroacetic acid, dichloroacetic acid, trichloroacetic acid, bromoacetic acid, & dibromoacetic acid).
2-CHLOROACETOPHENONE	000532-27-4														
4-CHLOROANILINE	000106-47-8						2B			40	140				
CHLOROBENZENE	000108-90-7				D			4,000	14,000	200	700	100	100	100	
CHLOROBENZILATE	000510-15-6						3			200	700				
CHLORODIFLUOROMETHANE	000075-45-6						3								
CHLOROETHANE	000075-00-3						3								
CHLOROFORM	000067-66-3	100	350		LI	2	2B	1,000	3,500	100	350	70	80	70	MCL is for total trihalomethanes. RfD is considered protective against cancer risk; no CREG value has been derived. EPA Re-Assessment: Underway FY13. See EPA IRIS website for more information.
CHLOROMETHANE	000074-87-3				CN		3								

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2				Hierarchy Level 3			COMMENTS
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)	MCLG (ppb)	
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult				
2-CHLORONAPHTHALENE	000091-58-7									800	2,800				
2-CHLOROPHENOL	000095-57-8									50	180	40			
4-CHLOROPHENOL	000106-48-9														
2-CHLOROPRENE	000126-99-8				LC	2	2B								Oral studies have been reviewed by EPA (Sept 2010), but an EPA RfD has not been estimated. See EPA IRIS website for summary.
3-CHLOROPROPENE	000107-05-1				C		3								
CHLOROTHALONIL	001897-45-6						2B			150	530				
2-CHLOROTOLUENE	000095-49-8									200	700	100			
CHLORPROPHAM	000101-21-3						3			2,000	7,000				
CHLORPYRIFOS	002921-88-2	10	35					30	110			2			EPA Reference Dose for chlorpyrifos has been removed from the IRIS database (March 2011).
CHROMIUM	007440-47-3						3						100	100	An updated toxicological review is available as an external review draft (dated Sept 2010) on the EPA IRIS website. Also, see CVs for hexavalent (CAS 018540-29-9) and trivalent (CAS 016065-83-1) chromium.
CHROMIUM, HEXAVALENT	018540-29-9	9	32		KL	1	1	50	180	30	110				Based on EPA 1996 guidelines, chromium(VI) is classified as a known/likely human carcinogen via inhalation exposure (KL) and its carcinogenic potential cannot be determined via oral exposure (CN). See EPA IRIS.
CHROMIUM, TRIVALENT	016065-83-1				CN		3			15,000	53,000				
CHRYSENE	000218-01-9				B2		2B								
COAL TAR CREOSOTE	008001-58-9				B1	1	2A								
COAL TARS	008007-45-2				A	1	1								
COBALT	007440-48-4						2B	100	350						
COBALT-TUNGSTEN CARBIDE (Powders and Hard Metals)	HZ0900-30-T					2									
COPPER	007440-50-8				D			100	350					1,300	MCL action level = 1,300 ppb; action must be taken if more than 10% of tap water samples exceed this level
COPPER CYANIDE	000544-92-3									50	180				
COUMARIN	000091-64-5						3								
CRESOL, META-	000108-39-4				C					500	1,800				
CRESOL, ORTHO-	000095-48-7				C					500	1,800				
CRESOL, PARA-	000106-44-5				C										
CRESOLS	001319-77-3	1,000	3,500					1,000	3,500						
CUMENE	000098-82-8				CN		2B			1,000	3,500				
CYANAZINE	021725-46-2											1			
CYANIDE	000057-12-5				D					6	21				
CYANIDE, SODIUM	000143-33-9							500	1,800	10	35		200	200	
CYANOGEN	000460-19-5									10	35				
CYANOGEN CHLORIDE	000506-77-4									500	1,800				
CYCLOHEXANE	000110-82-7				DI										

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2				Hierarchy Level 3		COMMENTS	
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)		MCLG (ppb)
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult				
CYCLOHEXANONE	000108-94-1						3			50,000	180,000				
CYFLUTHRIN	068359-37-5									250	880				
CYHALOTHRIN	068085-85-8							100	350	50	180				
CYPERMETHRIN	052315-07-8									100	350				
2,4-D ACID	000094-75-7									100	350		70	70	
DACTHAL	001861-32-1									100	350	70			
DDD, P,P'-	000072-54-8			0.15	B2		2B								
DDE, P,P'-	000072-55-9			0.1	B2		2B								
DDT, P,P'-	000050-29-3			0.1	B2	2	2B	5	18	5	18				
DECABROMODIPHENYL ETHER	001163-19-5			50	SU		3	100,000	350,000	70	250				
DEMETON	008065-48-3									0.4	1.4				
DI(2-ETHYLHEXYL)PHTHALATE	000117-81-7	600	2,100	2.5	B2	2		1,000	3,500	200	700		6	0	EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.
DI-N-BUTYL PHTHALATE	000084-74-2				D					1,000	3,500				EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.
DI-N-OCTYL PHTHALATE	000117-84-0							4,000	14,000						
2,4-DIAMINOTOLUENE	000095-80-7					2	2B								
DIAZINON	000333-41-5	7	25				1	20	70			1			
DIBENZO(A,E)PYRENE	000192-65-4					2	3								
DIBENZO(A,H)ANTHRACENE	000053-70-3				B2	2	2A								
DIBENZO(A,L)PYRENE	000191-30-0					2	2A								
1,2-DIBROMO-3-CHLOROPROPANE	000096-12-8					2	2B	20	70				0.2	0	
DIBROMOACETIC ACID	000631-64-1												60		MCL is for total of 5 haloacetic acids (monochloroacetic acid, dichloroacetic acid, trichloroacetic acid, bromoacetic acid, & dibromoacetic acid).
1,4-DIBROMOBENZENE	000106-37-6									100	350				
DIBROMOCHLOROMETHANE	000124-48-1	900	3,200	0.42	C		3			200	700	60	80	60	MCL is for total trihalomethanes (chloroform + bromodichloromethane + dibromochloromethane + bromoform).
1,2-DIBROMOETHANE	000106-93-4			0.018	LI	2	2A			90	320		0.05	0	
DIBUTYL TIN DICHLORIDE	000683-18-1							50	180						
DICAMBA	001918-00-9						1			300	1,100	4,000			
DICHLOROACETIC ACID	000079-43-6			0.7	LI		2B			40	140		60	0	MCL is for total of 5 haloacetic acids (monochloroacetic acid, dichloroacetic acid, trichloroacetic acid, bromoacetic acid, & dibromoacetic acid). MCLG is for individual compound.
1,2-DICHLOROBENZENE	000095-50-1	3,000	11,000		D		3	6,000	21,000	900	3,200	600	600	600	EPA Re-Assessment Underway FY13. See EPA IRIS website for more information.
1,4-DICHLOROBENZENE	000106-46-7	700	2,500			2	2B	700	2,500			75	75	75	EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.
1,3-DICHLOROBENZENE	000541-73-1				D		3	200	700			600			EPA Re-Assessment Underway FY13. See EPA IRIS website for more information.
3,3'-DICHLOROBENZIDINE	000091-94-1			0.078	B2	2	2B								

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2					Hierarchy Level 3		COMMENTS
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)	MCLG (ppb)	
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult				
DICHLORODIFLUOROMETHANE	000075-71-8									2,000	7,000	1,000			
1,1-DICHLOROETHANE	000075-34-3				C										
1,2-DICHLOROETHANE	000107-06-2			0.38	B2	2		2B	2,000	7,000			5	0	
1,1-DICHLOROETHENE	000075-35-4	90	320		NS			3			500	1,800	400	7	7
1,2-DICHLOROETHENE, CIS-	000156-59-2				IN				3,000	11,000	20	70	10	70	70
1,2-DICHLOROETHENE, TRANS-	000156-60-5				IN				2,000	7,000	200	700	100	100	100
2,4-DICHLOROPHENOL	000120-83-2								30	110	30	110	20		
4-(2,4-DICHLOROPHENOXY)BUTYRIC ACID	000094-82-6										80	280			
1,2-DICHLOROPROPANE	000078-87-5	900	3,200					3	700	2,500				5	0
2,3-DICHLOROPROPANOL	000616-23-9										30	110			
1,3-DICHLOROPROPENE	000542-75-6	300	1,100	0.35	KL	2		2B	400	1,400	300	1,100			
2,3-DICHLOROPROPENE	000078-88-6														
2,2-DICHLOROPROPIONIC ACID	000075-99-0										300	1,100	200	200	200
DICHLORVOS	000062-73-7	5	18	0.12	B2			2B	30	110	5	18			
DICOFOL	000115-32-2							3							
DICROTOPHOS	000141-66-2										1	3.5			
DIELDRIN	000060-57-1	0.5	1.8	0.0022	B2			3	1	3.5	0.5	1.8			
DIETHANOLAMINE	000111-42-2							3							
DIETHYL PHTHALATE	000084-66-2				D				60,000	210,000	8,000	28,000			
DIFENZOQUAT	043222-48-6										800	2,800			
DIFLUBENZURON	035367-38-5										200	700			
1,1-DIFLUOROETHANE	000075-37-6														
DIISOPROPYL METHYLPHOSPHONATE	001445-75-6	6,000	21,000		D				8,000	28,000	800	2,800	600		
DIMETHOATE	000060-51-5										2	7			
3,3'-DIMETHOXYBENZIDINE	000119-90-4					2		2B							
DIMETHYL CARBAMYL CHLORIDE	000079-44-7					2		2A							
DIMETHYL FORMAMIDE	000068-12-2							3							
DIMETHYL METHYLPHOSP-IONATE	000756-79-6				C								100		
1,4-DIMETHYL PHTHALATE	000120-61-6										1,000	3,500			
DIMETHYL PHTHALATE	000131-11-3				D										
DIMETHYL SULFATE	000077-78-1				B2	2		2A							
DIMETHYLANILINE	000121-69-7							3			20	70			
DIMETHYLARSINIC ACID	000075-60-5	200	700		D			2B							
1,1-DIMETHYLHYDRAZINE	000057-14-7					2		2B							
1,2-DIMETHYLHYDRAZINE	000540-73-8							2A	8	28					
2,6-DIMETHYLPHENOL	000576-26-1										6	21			
2,4-DIMETHYLPHENOL	000105-67-9										200	700			
4,6-DINITRO-O-CRESOL	000534-52-1								40	140					

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2					Hierarchy Level 3			COMMENTS
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)	MCLG (ppb)		
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult					
4,6-DINITRO-O-CYCLOHEXYL PHENOL	000131-89-5									20	70					
1,3-DINITROBENZENE	000099-65-0				D			1	5	18	1	3.5	1			
2,4-DINITROPHENOL	000051-28-5										20	70				
2,4-DINITROTOLUENE	000121-14-2	20	70					2B			20	70				
2,6-DINITROTOLUENE	000606-20-2							2B	40	140						
DINITROTOLUENE	025321-14-6			0.051	B2											
DINOSEB	000088-85-7				D						10	35	7	7	7	
1,4-DIOXANE	000123-91-1	1,000	3,500	0.35	LC	2	2B	5,000	18,000		300	1,100	200			
DIPHENAMID	000957-51-7										300	1,100	200			
DIPHENYLAMINE	000122-39-4										250	880				
1,2-DIPHENYLHYDRAZINE	000122-66-7			0.044	B2	2										
DIPHENYLMETHANE DIISOCYANATE	000101-68-8				CN		3									
DIQUAT	002764-72-9										22	77		20	20	
DISODIUM ARSENATE	007778-43-0					1	1									
DISULFOTON	000298-04-4	0.6	2.1					0.9	3.2		0.4	1.4	0.7			
1,4-DITHIANE	000505-29-3				D						100	350	80			
DIURON	000330-54-1										20	70				
ENDOSULFAN	000115-29-7	20	70					50	180		60	210				
ENDOTHALL	000145-73-3										200	700	50	100	100	
ENDRIN	000072-20-8	3	11		D		3	20	70		3	11	2	2	2	
EPICHLOROHYDRIN	000106-89-8			3.5	B2	2	2A								0	
EPN	002104-64-5										0.1	0.35				
1,2-EPOXYBUTANE	000106-88-7						2B									
EPTC	000759-94-4										250	880				
ETHEPHON	016672-87-0										50	180				
ETHION	000563-12-2	4	14					20	70		5	18				
ETHYL ACETATE	000141-78-6										9,000	32,000				
ETHYL ACRYLATE	000140-88-5						2B									
ETHYL ETHER	000060-29-7										2,000	7,000				
ETHYLBENZENE	000100-41-4				D		2B	4,000	14,000		1,000	3,500	700	700	700	
ETHYLENE GLYCOL	000107-21-1							8,000	28,000		20,000	70,000	14,000			
ETHYLENE OXIDE	000075-21-8					1	1									
FENAMIPHOS	022224-92-6										2.5	8.8	0.7			
FENVALERATE	051630-58-1						3				250	880				
FIBROUS GLASS AND MINERAL WOOL	HZ0900-22-T					2										
FLUOMETURON	002164-17-2						3				130	460	90			
FLUORANTHENE	000206-44-0				D		3	4,000	14,000		400	1,400				
FLUORENE	000086-73-7				D		3	4,000	14,000		400	1,400				

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2					Hierarchy Level 3			COMMENTS
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)	MCLG (ppb)		
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult					
FLUORINE	007782-41-4									600	2,100					
FLUSILAZOLE	085509-19-9									7	25					
FOLPET	000133-07-3			10	B2					1,000	3,500					
FONOPHOS	000944-22-9									20	70	10				
FORMALDEHYDE	000050-00-0	2,000	7,000		B1	1	1	3,000	11,000	2,000	7,000	1,000			EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.	
FUEL OIL NO. 2	068476-30-2						3								IARC cancer class value is for fuel oils, distillate (light).	
FUEL RELATED ORGANICS	HZ0600-47-T				LI											
FURAN	000110-00-9					2	2B			10	35					
FURFURAL	000098-01-1						3			30	110					
GAMMA RADIATION	HZ1800-03-T					1	1									
GLYCIDYLALDEHYDE	000765-34-4				B2		2B			4	14					
GLYPHOSATE	001071-83-6				D					1,000	3,500		700	700		
HEPTACHLOR	000076-44-8			0.0078	B2		2B	1	3.5	5	18		0.4	0		
HEPTACHLOR EPOXIDE	001024-57-3			0.0038	B2					0.13	0.46		0.2	0		
HEXABROMOBENZENE	000087-82-1									20	70					
HEXACHLOROBENZENE	000118-74-1	0.5	1.8	0.022	B2	2	2B	1	3.5	8	28		1	0		
HEXACHLOROBUTADIENE	000087-68-3			0.45	C		3	2	7						EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.	
HEXACHLOROCYCLOHEXANE, ALPHA-	000319-84-6	80	280	0.0056	B2	2	2B									
HEXACHLOROCYCLOHEXANE, BETA-	000319-85-7			0.019	C	2	2B	6	21							
HEXACHLOROCYCLOHEXANE, GAMMA-	000058-89-9					2	2B	0.1	0.35	3	11		0.2	0.2		
HEXACHLOROCYCLOHEXANE, TECHNICAL GRADE	000608-73-1			0.019	B2	2	2B									
HEXACHLOROCYCLOPENTADIENE	000077-47-4				NO			1,000	3,500	60	210		50	50		
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	019408-74-3			5.6E-06	B2		3									
HEXACHLOROETHANE	000067-72-1			0.88	LC	2	2B	100	350	7	25	1				
HEXACHLOROPHENE	000070-30-4						3			3	11					
HEXAMETHYL PHOSPHORAMIDE	000680-31-9					2	2B									
HEXAMETHYLENE DIISOCYANATE	000822-06-0															
HEXANE, N-	000110-54-3				IN											
2-HEXANONE	000591-78-6				IN					50	180					
HMX (CYCLOTETRAMETHYLENE TETRAMINAMINE)	002691-41-0				D			500	1,800	500	1,800	400				
HYDRAZINE	000302-01-2			0.012	B2	2	2B									
HYDROCHLORIC ACID	007647-01-0						3									
HYDROGEN CYANIDE	000074-90-8				IN					6	21					
HYDROGEN FLUORIDE	007664-39-3															
HYDROGEN SULFIDE	007783-06-4				DI											

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2					Hierarchy Level 3			COMMENTS
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)	MCLG (ppb)		
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult					
HYPOCHLORITE	014380-61-1						3									
INDENO(1,2,3-CD)PYRENE	000193-39-5				B2	2	2B									
IODINE	007553-56-2	100	350													MRLs/EMEGs are based on administered doses of sodium and potassium iodide.
IODINE-131	010043-66-0						1									
ISOBUTYL ALCOHOL	000078-83-1									3,000	11,000					
ISOPHORONE	000078-59-1	2,000	7,000	37	C			30,000	110,000	2,000	7,000	100				
ISOPROPYL METHYL PHOSPHONATE	005514-35-2											700				
ISOPROPYL PHENYLCARBAMATE	000122-42-9						3			200	700	100				
JP-4	050815-00-4															
JP-5/JP-8	HZ0600-25-T															
JP-7	HZ0600-22-T						3									
KEROSENE	008008-20-6						3									IARC cancer class value is for fuel oils, distillate (light).
LEAD	007439-92-1				B2	2	2B							0		MCL action level = 15 ppb; action must be taken if more than 10% of tap water samples exceed this value.
LEAD ACETATE	000301-04-2					2	2A									
LEAD PHOSPHATE	007446-27-7					2	2A									
M-PHENYLENEDIAMINE	000108-45-2						3			60	210					
M-XYLENE	000108-38-3															Refer to MRLs and Comparison Values for total xylenes (CASRN 1330-20-7).
MALATHION	000121-75-5	200	700				3	200	700	200	700	500				
MALEIC ANHYDRIDE	000108-31-6									1,000	3,500					
MANEB	012427-38-2						3			50	180					
MANGANESE	007439-96-5				D					500	1,800	300				RMEG calculated for environmental exposures, not food or total intake.
MEPIQUAT CHLORIDE	024307-26-4									300	1,100					
MERCURIC CHLORIDE	007487-94-7				C		3	20	70	3	11	2	2	2		The LTHA, MCL, and MCLG values are listed for inorganic mercury.
MERCURY	007439-97-6				D		3									
MERPHOS	000150-50-5									0.3	1.1					
METHACRYLONITRILE	000126-98-7									1	3.5					
METHAMIDOPHOS	010265-92-6									0.5	1.8					
METHANOL	000067-56-1									5,000	18,000					EPA Re-Assessment Underway FY13. See EPA IRIS website for more information.
METHIDATHION	000950-37-8				C					10	35					
METHOMYL	016752-77-5									250	880	200				
1-METHOXY-2-PROPANOL	000107-98-2															
METHOXYCHLOR	000072-43-5				D		3	50	180	50	180	40	40	40		
METHOXYETHANOL	000109-86-4															
METHYL ISOBUTYL KETONE	000108-10-1				DI											

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2				Hierarchy Level 3		COMMENTS	
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)		MCLG (ppb)
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult				
METHYL METHACRYLATE	000080-62-6				NO		3			14,000	49,000				
METHYL PARATHION	000298-00-0	3	11				3	7	25	2.5	8.8	1			
4-(2-METHYL-4-CHLOROPHENOXY) BUTYRIC ACID	000094-81-5									100	350				
2-METHYL-4-CHLOROPHENOXYACETIC ACID	000094-74-6									5	18	30			
METHYL-T-BUTYL ETHER	001634-04-4						3	3,000	11,000						
2-METHYLAZIRIDINE	000075-55-8				2	2B									
5-METHYLCHRYSENE	003697-24-3				2	2B									
METHYLENE CHLORIDE	000075-09-2	600	2,100	18	LC	2	2B			60	210	200	5	0	
4,4'-METHYLENEBIS(2-CHLOROANILINE)	000101-14-4	30	110			2	1								
4,4'-METHYLENEDIANILINE	000101-77-9					2	2B	800	2,800						
4,4'-(1-METHYLETHYLIDENE)BIS-PHENOL	000080-05-7									500	1,800				
METHYLMERCURY	022967-92-6	3	11		C		2B			1	3.5				
1-METHYLNAPHTHALENE	000090-12-0	700	2,500												
2-METHYLNAPHTHALENE	000091-57-6	400	1,400		DI					40	140				
METOLACHLOR	051218-45-2				C					1,500	5,300	700			
METRIBUZIN	021087-64-9				D					250	880	70			
MIREX	002385-85-5	8	28			2	2B			2	7				
MOLINATE	002212-67-1									20	70				
MOLYBDENUM	007439-98-7									50	180	40			
MONOCHLORAMINE	010599-90-3				D		3			1,000	3,500	3,000	4,000	4,000	MCL and MCLG are actually Maximum Residual Disinfectant Levels and Maximum Residual Disinfectant Levels (MRDL and MRDLG), similar to MCL/MCLG. The values are measured as free chlorine.
MONOMETHYLARSONIC ACID	000124-58-3	100	350				2B	1,000	3,500						
N-NITROSO-N-METHYLURETHANE	000615-53-2						2B								
N-NITROSODI-N-PROPYLAMINE	000621-64-7			0.005	B2	2	2B								
N-NITROSODIETHYLAMINE	000055-18-5			0.00023	B2	2	2A								
N-NITROSODIMETHYLAMINE	000062-75-9			0.00069	B2	2	2A								
N-NITROSODIPHENYLAMINE	000086-30-6			7.1	B2		3								
NALED	000300-76-5									20	70				
NAPHTHALENE	000091-20-3				CN	2	2B	6,000	21,000	200	700	100			An updated literature search (dated Dec 2010) is available on the EPA IRIS website.
NICKEL	007440-02-0					2	2B			200	700	100			
NICKEL SUBSULFIDE	012035-72-2				A	1	1								
NITRATE	014797-55-8									16,000	56,000		10,000	10,000	The drinking water RMEG is not protective of infants. Use the MCLG.
NITRATE AND NITRITE	HZ2100-10-T						2A						10,000	10,000	
NITRILOTRIACETIC ACID	000139-13-9					2	2B								

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2				Hierarchy Level 3		COMMENTS	
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)		MCLG (ppb)
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult				
NITRITE	014797-65-0									1,000	3,500		1,000	1,000	
NITROBENZENE	000098-95-3				LC			2B			20	70			
NITROGLYCERINE	000055-63-0											5			
NITROGUANIDINE	000556-88-7				D					1,000	3,500	700			
4-NITROPHENOL	000100-02-7											60			
2-NITROPROPANE	000079-46-9					2		2B							
NITROSOMORPHOLINE	000059-89-2					2		2B							
2-NITROTOLUENE	000088-72-2					2									
OCTABROMODIPHENYL ETHER	032536-52-0				D					30	110				This is a type of PBDE. Refer to the MRLs listed under CAS# 032534-81-9, (PBDEs, lower brominated).
ORYZALIN	019044-88-3				C					500	1,800				
OXADIAZON	019666-30-9									50	180				
OXAMYL	023135-22-0									250	880		200	200	
OXYFLUORFEN	042874-03-3									30	110				
P-CHLOROTOLUENE	000106-43-4				D							100			
P-XYLENE	000106-42-3														Refer to MRLs and Comparison Values for total xylenes (CASRN 1330-20-7).
PARAQUAT DICHLORIDE	001910-42-5				C					45	160	30			
PARATHION	000056-38-2				C			3							
PENDIMETHALIN	040487-42-1									400	1,400				
PENTACHLOROBENZENE	000608-93-5				D					8	28				
2,3,4,7,8-PENTACHLORODIBENZOFURAN	057117-31-4							1	0.0003	0.0011					
PENTACHLORONITROBENZENE	000082-68-8							3			30	110			
PENTACHLOROPHENOL	000087-86-5	10	35	0.088	LC			2B	10	35	50	180	40	1	0
PERCHLORATE	014797-73-0	7	25		NL						7	25	15		
PERMETHRIN	052645-53-1							3	2,000	7,000	500	1,800			
PHENANTHRENE	000085-01-8				D			3							
PHENOL	000108-95-2				DI			3			3,000	11,000	2,000		
PHENYLMERCURIC ACETATE	000062-38-4										0.8	2.8			
PHOSGENE	000075-44-5				IN										
PHOSPHINE	007803-51-2				D						3	11			
PHOSPHORIC ACID	007664-38-2														
PHOSPHORUS, WHITE	007723-14-0				D				2	7	0.2	0.7	0.1		
PHOSPHORUS-32	014596-37-3							1							
PTHALIC ANHYDRIDE	000085-44-9										20,000	70,000			
PLUTONIUM-239	015117-48-3							1							
POLYBROMINATED BIPHENYLS	067774-32-7					2		2B							MRL based on hexa-bromobiphenyl mixture; considered protective for all PBBs.

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2				Hierarchy Level 3		COMMENTS	
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)		MCLG (ppb)
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult				
POLYBROMINATED DIPHENYL ETHERS	032534-81-9				D			70	250	20	70				These MRLs also include octa-BDE, CAS #: 32536-52-0. See PBB/PBDE Tox Profile for discussion.
POLYCHLORINATED BIPHENYLS	001336-36-3			0.018	B2	2	2A						0.5	0	EPA Re-Assessment Underway FY13. See EPA IRIS website for more information. Oral CSF is the upper bound slope factor for high risk, high persistence PCBs. Also see CVs:Aroclor 1016 and 1254, commercial PCBs.
POLYMETHYLENE POLYPHENYLISOCYANATE	009016-87-9				CN		3								
POTASSIUM CYANIDE	000151-50-8									20	70				
POTASSIUM SILVER CYANIDE	000506-61-6									50	180				
PROMETON	001610-18-0									150	530	400			
PROMETRYN	007287-19-6									40	140				
PRONAMIDE	023950-58-5									750	2,600				
PROPACHLOR	001918-16-7									130	460				
PROPANIL	000709-98-8									50	180				
PROPARGITE	002312-35-8									200	700				
PROPAZINE	000139-40-2									200	700	10			
PROPOXUR	000114-26-1									40	140	3			
PROPYLENE GLYCOL	000057-55-6														
PROPYLENE GLYCOL DINITRATE	006423-43-4														
PROPYLENE OXIDE	000075-56-9			0.15	B2	2	2B								
PURSUIT	081335-77-5									2,500	8,800				
PYRENE	000129-00-0				D		3			300	1,100				
PYRIDINE	000110-86-1						3			10	35				
RADIUM	007440-14-4						1						5	0	Units for MCL are picocuries per liter (pCi/L)- radium (tot)226 & 228.
RADIUM-224 AND DAUGHTERS	HZ1800-60-T						1								
RADIUM-226 AND DAUGHTERS	HZ1800-61-T						1								
RADIUM-226/228	HZ1800-20-T						1						5	0	MCL units are pCi/L
RADIUM-228 AND DAUGHTERS	HZ1800-62-T						1								
RADON	010043-92-2					1	1						300	0	Units are picocuries per liter (pCi/l). DWHA lists an alternative MCL for radon of 4000.0 pCi/L.
RDX (Cyclonite)	000121-82-4	1,000	3,500	0.32	C			1,000	3,500	30	110	2			
REFRACTORY CERAMIC FIBERS	HZ0900-25-T				B2	2	2B								See Synthetic Vitreous Fibers Toxicological Profile for more info.
RESMETHRIN	010453-86-8									300	1,100				
ROTENONE	000083-79-4									40	140				
S,S,S-TRIBUTYL PHOSPHOROTRITHIOATE	000078-48-8									0.3	1.1				
SELENIOS ACID	007783-00-8				D		3			50	180				
SELENIUM	007782-49-2	50	180		D		3			50	180	50	50	50	
SELENIUM SULFIDE	007446-34-6				B2	2	3								

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2					Hierarchy Level 3		COMMENTS	
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)	MCLG (ppb)		
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult					
SILICA, AMORPHOUS	007631-86-9					1		3								
SILVER	007440-22-4				D					50	180	100				
SILVER CYANIDE	000506-64-9									1,000	3,500					
SIMAZINE	000122-34-9							3		50	180		4	4		
SODIUM AZIDE	026628-22-8									40	140					
SODIUM BROMATE	007789-38-0												10	0		
SODIUM DIETHYLDITHIOCARBAMATE	000148-18-5							3		300	1,100					
SODIUM FLUORIDE	007681-49-4	500	1,800					3					4,000	4,000		
SODIUM FLUOROACETATE	000062-74-8									0.2	0.7					
STRONTIUM	007440-24-6							20,000	70,000	6,000	21,000	4,000				
STRONTIUM CHROMATE(VI)	007789-06-2					1		1								IARC cancer class is for chromium and chromium compounds.
STRYCHNINE	000057-24-9									3	11					
STYRENE	000100-42-5					2		2B		2,000	7,000	100	100	100		
SULFOTEP	003689-24-5									5	18					
SULFUR DIOXIDE	007446-09-5							3								
SULFUR MUSTARD	000505-60-2					1		1	0.7	2.5						
2,4,5-T	000093-76-5									100	350	70				
TEBUTHIURON	034014-18-1									700	2,500	500				
TERBACIL	005902-51-2									130	460	90				
TERBUFOS	013071-79-9											0.4				
TERBUTRYN	000886-50-0									10	35					
1,2,4,5-TETRACHLOROBENZENE	000095-94-3									3	11					
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	001746-01-6	1E-05	3.5E-05			1		1	0.0002	0.0007	7E-06	2.5E-05		3E-05	0	EPA Cancer Re-Assessment currently underway. See EPA IRIS website for more information.
1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN	030746-58-8							3								
1,1,1,2-TETRACHLOROETHANE	000630-20-6			1.3	C			3		300	1,100	70				
1,1,2,2-TETRACHLOROETHANE	000079-34-5			0.18	LC			3	5,000	18,000	200	700				
TETRACHLOROETHYLENE	000127-18-4			17	LC	2		2A		60	210	10	5	0		
2,3,4,6-TETRACHLOROPHENOL	000058-90-2									300	1,100					
TETRAETHYL LEAD	000078-00-2							3		0.001	0.0035					
1,1,1,2-TETRAFLUOROETHANE	000811-97-2															
TETRAHYDROFURAN	000109-99-9				SU					9,000	32,000					
THALLIUM	007440-28-0												2	0.5		
THALLIUM ACETATE	000563-68-8				IN											
THALLIUM CARBONATE	006533-73-9				IN											
THALLIUM NITRATE	010102-45-1				IN											
THALLIUM SULFATE	007446-18-6				IN											
THIOACETAMIDE	000062-55-5					2		2B								
THIOBENCARB	028249-77-6									100	350					

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2				Hierarchy Level 3		COMMENTS	
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)		MCLG (ppb)
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult				
THIOUREA	000062-56-6					2		3							
THIRAM	000137-26-8							3			50	180			
THORIUM	007440-29-1							1							IARC cancer class is for Thorium-232.
TIN	007440-31-5								3,000	11,000					
TITANIUM TETRACHLORIDE	007550-45-0														
TOLUENE	000108-88-3				IN			3	200	700	800	2,800		1,000	1,000
TOLUENE DIISOCYANATE (N.O.S)	026471-62-5					2		2B							
TOXAPHENE	008001-35-2			0.032	B2	2		2B	20	70				3	0
2,4,5-TP ACID	000093-72-1				D						80	280	50	50	50
1,2,4-TRIBROMOBENZENE	000615-54-3										50	180			
TRIBUTYL PHOSPHATE (TnBP)	000126-73-8	800	2,800						800	2,800					
TRIBUTYLtin OXIDE	000056-35-9	3	11		CN				3	11	3	11			
1,1,2-TRICHLORO- 1,2,2-TRIFLUOROETHANE	000076-13-1										300,000	1,100,000			
TRICHLOROACETIC ACID	000076-03-9			0.5	SU			3			200	700	20	60	20
1,3,5-TRICHLOROBENZENE	000108-70-3												40		
1,2,4-TRICHLOROBENZENE	000120-82-1	1,000	3,500		D				1,000	3,500	100	350	70	70	70
1,1,1-TRICHLOROETHANE	000071-55-6				IN			3	200,000	700,000	20,000	70,000		200	200
1,1,2-TRICHLOROETHANE	000079-00-5			0.61	C			3	400	1,400	40	140	3	5	3
TRICHLOROETHYLENE	000079-01-6	5	18	0.76	CH	2		2A			5	18		5	0
TRICHLOROFLUOROMETHANE	000075-69-4										3,000	11,000	2,000		
(TRICHLOROMETHYL)BENZENE	000098-07-7			0.0027	B2	2		2A							
2,4,5-TRICHLOROPHENOL	000095-95-4										1,000	3,500			
2,4,6-TRICHLOROPHENOL	000088-06-2			3.2	B2	2									
1,2,3-TRICHLOROPROPANE	000096-18-4			0.0012	LC	2		2A	800	2,800	40	140			
1,1,2-TRICHLOROPROPANE	000598-77-6										50	180			
TRICRESYL PHOSPHATE (TCP)	001330-78-5	200	700						400	1,400					
TRIETHANOLAMINE	000102-71-6							3							
TRIETHYLAMINE	000121-44-8														
TRIFLURALIN	001582-09-8			4.5	C			3			75	260	10		
1,3,5-TRINITROBENZENE	000099-35-4										300	1,100			
2,4,6-TRINITROTOLUENE	000118-96-7			1.2	C			3	5	18	5	18	2		
TRIS(2-BUTOXYETHYL) PHOSPHATE (TBEP)	000078-51-3								900	3,200					
TRIS(1,3-DICHLORO-2-PROPYL) PHOSPHATE	013674-87-8	200	700					3	500	1,800					
TRIS(2,3-DIBROMOPROPYL)PHOSPHATE	000126-72-7					2		2A							
TRIS(2-CHLOROETHYL) PHOSPHATE (TCEP)	000115-96-8	2,000	7,000					3	6,000	21,000					

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2				Hierarchy Level 3		COMMENTS	
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)		MCLG (ppb)
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult				
URANIUM	007440-61-1												30	0	
URANIUM, INSOLUBLE COMPOUNDS	HZ1800-92-T														
URANIUM, MODERATELY SOLUBLE SALTS	HZ1800-91-T														
URANIUM, SOLUBLE SALTS	HZ1800-93-T							2	7	30	110				
URETHANE, SOLIDIFIED	000051-79-6					2	2A								
VANADIUM	007440-62-2							100	350						
VANADIUM PENTOXIDE	001314-62-1						2B			90	320				Under EPA Re-Assessment FY13. See EPA IRIS website for more information.
VERNOLATE	001929-77-7									10	35				
VINCLOZOLIN	050471-44-8									250	880				
VINYL ACETATE	000108-05-4						2B								
VINYL BROMIDE	000593-60-2					2	2A								
VINYL CHLORIDE	000075-01-4	30	110	0.025	KL	1	1			30	110		2	0	Oral CSF and IUR are based on continuous lifetime exposures since birth. See EPA IRIS website for more information.
WARFARIN	000081-81-2									3	11				
XYLENES, TOTAL	001330-20-7	2,000	7,000		DI		3	4,000	14,000	2,000	7,000		10,000	10,000	
3,4-XYLENOL	000095-65-8									10	35				
ZINC	007440-66-6	3,000	11,000		IN			3,000	11,000	3,000	11,000	2,000			
ZINC CYANIDE	000557-21-1									500	1,800				
ZINEB	012122-67-7						3			500	1,800				

Drinking Water Comparison Values from ATSDR's Sequoia Database
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SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2				Hierarchy Level 3			COMMENTS
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)	MCLG (ppb)	
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult				
ACENAPHTHENE	000083-32-9						3	6,000	21,000	600	2,100				
ACEPHATE	030560-19-1			4	C					40	140				
ACETALDEHYDE	000075-07-0				B2	2	2B								EPA Re-Assessment Underway FY13. See EPA IRIS website for more information.
ACETAMIDE	000060-35-5						2B								
ACETOCHLOR	034256-82-1									200	700				
ACETONE	000067-64-1				DI			20,000	70,000	9,000	32,000				
ACETONITRILE	000075-05-8				CN										
ACETOPHENONE	000098-86-2				D					1,000	3,500				
2-ACETYLAMINOFLUORENE	000053-96-3					2									
ACROLEIN	000107-02-8				DI		3	40	140	5	18				
ACRYLAMIDE	000079-06-1	10	35	0.07	LC	2	2A	10	35	20	70			0	
ACRYLIC ACID	000079-10-7						3			5,000	18,000				
ACRYLONITRILE	000107-13-1	400	1,400	0.065	B1	2	2B	100	350						EPA Re-Assessment Underway FY13/14 See EPA IRIS website for more information.
ALACHLOR	015972-60-8									100	350		2	0	
ALAR	001596-84-5									1,500	5,300				
ALDICARB	000116-06-3				D		3			10	35	7	3	1	The MCL value for any combination of 2 or more of these chemicals (aldicarb, aldicarb sulfone, and aldicarb sulfoxide) should not exceed 7 ppb because of a similar mode of action (EPA 2004 DWHA).
ALDICARB SULFONE	001646-88-4									10	35	7	2	1	The MCL value for any combination of 2 or more of these chemicals (aldicarb, aldicarb sulfone, and aldicarb sulfoxide) should not exceed 7 ppb because of a similar mode of action (EPA 2004 DWHA).
ALDICARB SULFOXIDE	001646-87-3											7	4	1	The MCL value for any combination of 2 or more of these chemicals (aldicarb, aldicarb sulfone, and aldicarb sulfoxide) should not exceed 7 ppb because of a similar mode of action (EPA 2004 DWHA).
ALDRIN	000309-00-2	0.3	1.1	0.0021	B2		3			0.3	1.1				
ALLYL ALCOHOL	000107-18-6									50	180				
ALPHA RADIATION	012587-46-1						1						15	0	Units in picocuries/liter (pCi/L)
ALUMINUM	007429-90-5	10,000	35,000					10,000	35,000						
ALUMINUM PHOSPHIDE	020859-73-8									4	14				
AMETRYN	000834-12-8									90	320	60			
4-AMINO-3,5,6-TRICHLOROPICOLINIC ACID	001918-02-1						3			700	2,500		500	500	
4-AMINOBIPHENYL	000092-67-1					1	1								
AMINOTRIAZOLE	000061-82-5					2	3								

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2				Hierarchy Level 3			COMMENTS	
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)	MCLG (ppb)		
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult					
AMMONIA	007664-41-7											33,000			Under EPA Re-Assessment FY13. See EPA IRIS website for more information.	
ANILINE	000062-53-3			6.1	B2		3									
ANTHRACENE	000120-12-7				D		3	100,000	350,000	3,000	11,000					
ANTIMONY	007440-36-0									4	14	6	6	6		
ANTIMONY TRIOXIDE	001309-64-4						2B									
ARAMITE	000140-57-8			1.4	B2		2B									
AROCLOR 1016	012674-11-2									0.7	2.5				Aroclor is a commercial mixture of PCBs. EPA Re-Assessment of PCBs Underway FY13. See EPA IRIS website for more information.	
AROCLOR 1254	011097-69-1	0.2	0.7			2		0.3	1.1	0.2	0.7				Aroclor is a commercial mixture of PCBs. EPA Re-Assessment of PCBs Underway FY13. See EPA IRIS website for more information.	
AROCLOR 1260	011096-82-5					2									Aroclor is a commercial mixture of PCBs. EPA Re-Assessment of PCBs Underway FY13. See EPA IRIS website for more information.	
ARSENIC	007440-38-2	3	11	0.023	A	1	1			3	11		10	0	An updated toxicological review (inorganic arsenic and cancer) is available as an external review draft (dated Feb 2010) on the EPA IRIS website.	
ARSINE	007784-42-1															
ASBESTOS	001332-21-4				A	1	1						7	7		MCL/MCLG: The units for asbestos are millions of fibers per liter in water.
ASSURE	076578-14-8				D					90	320					
ATRAZINE	001912-24-9						3	30	110	350	1,200		3	3		
AUTOMOTIVE GASOLINE	008006-61-9						2B									
AZINPHOS-METHYL	000086-50-0	30	110					30	110							
AZOBENZENE	000103-33-3			0.32	B2		3									
BARIUM	007440-39-3	2,000	7,000		CN			2,000	7,000	2,000	7,000		2,000	2,000	Based on EPA 1996 cancer assessment guidelines, barium is classified as not likely to be carcinogenic to humans via oral exposure (NO) and its carcinogenic potential can not be determined via inhalation (CN).	
BENFLURALIN	001861-40-1									3,000	11,000					
BENOMYL	017804-35-2									500	1,800					
BENTAZON	025057-89-0				NO					300	1,100	200				
BENZALDEHYDE	000100-52-7									1,000	3,500					
BENZENE	000071-43-2	5	18	0.64	KL	1	1			40	140	3	5	0	Oral slope factor ranges from 0.015 - 0.055 (mg/kg/day)-1.	
BENZIDINE	000092-87-5			0.00015	A	1	1			30	110					
BENZO(A)ANTHRACENE	000056-55-3				B2	2	2B									
BENZO(A)PYRENE	000050-32-8			0.0048	B2	2	1						0.2	0		Under Re-Assessment by EPA FY13. See EPA IRIS website for more information.
BENZO(B)FLUORANTHENE	000205-99-2				B2	2	2B									
BENZO(GHI)PERYLENE	000191-24-2				D		3									
BENZO(J)FLUORANTHENE	000205-82-3					2	2B									

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2					Hierarchy Level 3		COMMENTS
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)	MCLG (ppb)	
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult				
BENZO(K)FLUORANTHENE	000207-08-9				B2	2	2B								
2,3-BENZOFURAN	000271-89-6						2B								
BENZOIC ACID	000065-85-0				D					40,000	140,000				
BENZYL CHLORIDE	000100-44-7			0.21	B2		2A								
BERYLLIUM	007440-41-7	20	70		KL	1	1			20	70		4	4	Based on EPA 1996 guidelines, beryllium is classified as a known/likely human carcinogen via inhalation exposure (KL) and its carcinogenic potential cannot be determined via oral exposure (CN). See EPA IRIS.
BETA RADIATION	012587-47-2						1						4	0	Units for MCL are millirems/year
BETA-NAPHTHYLAMINE	000091-59-8					1	1								
BIPHENYL	000092-52-4				D					500	1,800				
BIS(2-CHLORO-1-METHYLETHYL) ETHER	000108-60-1						3			400	1,400	300			
BIS(2-CHLOROETHYL) ETHER	000111-44-4			0.032	B2		3								
BIS(2-ETHYLHEXYL)ADIPATE	000103-23-1			29	C		3			6,000	21,000	400	400	400	
BIS(CHLOROMETHYL) ETHER	000542-88-1			0.00016	A	1	1								
BORON	007440-42-8				DI			2,000	7,000	2,000	7,000	6,000			
BROMACIL	000314-40-9											70			
BROMATE	015541-45-4			0.05	KL					40	140		10	0	Based on EPA 1996 guidelines, bromate is classified as a known/likely human carcinogen via oral exposure (KL) and its carcinogenic potential cannot be determined via inhalation exposure (CN).
BROMIC ACID, POTASSIUM SALT	007758-01-2						2B								
BROMOACETIC ACID	000079-08-3												60		MCL is for total of 5 haloacetic acids (monochloroacetic acid, dichloroacetic acid, trichloroacetic acid, bromoacetic acid, & dibromoacetic acid).
BROMOBENZENE	000108-86-1				IN					80	280	60			
BROMOCHLOROMETHANE	000074-97-5				D							90			
BROMODICHLOROMETHANE	000075-27-4	200	700	0.56	B2	2	2B			200	700		80	0	MCL is for total trihalomethanes (sum of the concentrations of chloroform, bromodichloromethane, chlorodibromomethane, and bromoform).
BROMOFORM	000075-25-2	200	700	4.4	B2		3	2,000	7,000	200	700		80	0	MCL is for total trihalomethanes (sum of the concentrations of chloroform, bromodichloromethane, chlorodibromomethane, and bromoform).
BROMOMETHANE	000074-83-9				D		3	30	110	14	49	10			
1,3-BUTADIENE	000106-99-0				CA	1	1								
BUTANOL	000071-36-3				D					1,000	3,500				
2-BUTANONE	000078-93-3				DI					6,000	21,000	4,000			
2-BUTOXYETHANOL	000111-76-2				NC		3	700	2,500	1,000	3,500				
BUTYL BENZYL PHTHALATE	000085-68-7				C		3			2,000	7,000				
BUTYLATE	002008-41-5									500	1,800	400			
CADMIUM	007440-43-9	1	3.5		B1	1	1	5	18	5	18	5	5	5	

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2					Hierarchy Level 3			COMMENTS
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)	MCLG (ppb)		
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult					
CALCIUM CYANIDE	000592-01-8									10	35					
CAPROLACTAM	000105-60-2						4			5,000	18,000					
CAPTAFOL	002425-06-1					2	2A			20	70					
CAPTAN	000133-06-2						3			1,300	4,600					
CARBARYL	000063-25-2						3			1,000	3,500					
CARBAZOLE	000086-74-8						2B									
CARBOFURAN	001563-66-2									50	180		40	40		
CARBON DISULFIDE	000075-15-0									1,000	3,500					
CARBON TETRACHLORIDE	000056-23-5			0.5	LC	2	2B	70	250	40	140	30	5	0		
CARBOSULFAN	055285-14-8									100	350					
CARBOXIN	005234-68-4									1,000	3,500	700				
CELLOSOLVE	000110-80-5															
Cerium Oxide	001306-38-3				IN		1									
CHLORAL HYDRATE	000302-17-0				CN		3			1,000	3,500					
CHLORAMBEN	000133-90-4									150	530	100				
CHLORDANE	000057-74-9	6	21	0.1	KL		2B	6	21	5	18	4	2	0	EPA IRIS lists chlordane (technical) as CAS# 12789-03-6 with CAS# 57-74-9 identified as a synonym. All the tox values are listed here.	
CHLORDECONE	000143-50-0	5	18	0.0035	LC	2	2B	5	18	3	11					
CHLORENDIC ACID	000115-28-6					2	2B									
CHLORFENVINPHOS	000470-90-6	7	25					20	70							
CHLORINE	007782-50-5									1,000	3,500	4,000	4,000	4,000	MCL and MCLG are actually Maximum Residual Disinfectant Levels and Maximum Residual Disinfectant Levels (MRDL and MRDLG), similar to MCL/MCLG.	
CHLORINE DIOXIDE	010049-04-4				CN					300	1,100	800	800	800	MCL and MCLG are actually Maximum Residual Disinfectant Levels and Maximum Residual Disinfectant Levels (MRDL and MRDLG), similar to MCL/MCLG.	
CHLORITE, SODIUM	007758-19-2				CN		3	1,000	3,500	300	1,100	800	1,000	800		
1-CHLORO-1,1-DIFLUOROETHANE	000075-68-3															
CHLOROACETIC ACID	000079-11-8											70	60	70	MCL is for total of 5 haloacetic acids (monochloroacetic acid, dichloroacetic acid, trichloroacetic acid, bromoacetic acid, & dibromoacetic acid).	
2-CHLOROACETOPHENONE	000532-27-4															
4-CHLOROANILINE	000106-47-8						2B			40	140					
CHLOROBENZENE	000108-90-7				D			4,000	14,000	200	700	100	100	100		
CHLOROBENZILATE	000510-15-6						3			200	700					
CHLORODIFLUOROMETHANE	000075-45-6						3									
CHLOROETHANE	000075-00-3						3									
CHLOROFORM	000067-66-3	100	350		LI	2	2B	1,000	3,500	100	350	70	80	70	MCL is for total trihalomethanes. RfD is considered protective against cancer risk; no CREG value has been derived. EPA Re-Assessment Underway FY13. See EPA IRIS website for more information.	
CHLOROMETHANE	000074-87-3				CN		3									

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2				Hierarchy Level 3			COMMENTS
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)	MCLG (ppb)	
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult				
2-CHLORONAPHTHALENE	000091-58-7									800	2,800				
2-CHLOROPHENOL	000095-57-8									50	180	40			
4-CHLOROPHENOL	000106-48-9														
2-CHLOROPRENE	000126-99-8				LC	2	2B								Oral studies have been reviewed by EPA (Sept 2010), but an EPA RfD has not been estimated. See EPA IRIS website for summary.
3-CHLOROPROPENE	000107-05-1				C		3								
CHLOROTHALONIL	001897-45-6						2B			150	530				
2-CHLOROTOLUENE	000095-49-8									200	700	100			
CHLORPROPHAM	000101-21-3						3			2,000	7,000				
CHLORPYRIFOS	002921-88-2	10	35					30	110			2			EPA Reference Dose for chlorpyrifos has been removed from the IRIS database (March 2011).
CHROMIUM	007440-47-3						3						100	100	An updated toxicological review is available as an external review draft (dated Sept 2010) on the EPA IRIS website. Also, see CVs for hexavalent (CAS 018540-29-9) and trivalent (CAS 016065-83-1) chromium.
CHROMIUM, HEXAVALENT	018540-29-9	9	32		KL	1	1	50	180	30	110				Based on EPA 1996 guidelines, chromium(VI) is classified as a known/likely human carcinogen via inhalation exposure (KL) and its carcinogenic potential cannot be determined via oral exposure (CN). See EPA IRIS.
CHROMIUM, TRIVALENT	016065-83-1				CN		3			15,000	53,000				
CHRYSENE	000218-01-9				B2		2B								
COAL TAR CREOSOTE	008001-58-9				B1	1	2A								
COAL TARS	008007-45-2				A	1	1								
COBALT	007440-48-4						2B	100	350						
COBALT-TUNGSTEN CARBIDE (Powders and Hard Metals)	HZ0900-30-T					2									
COPPER	007440-50-8				D			100	350					1,300	MCL action level = 1,300 ppb; action must be taken if more than 10% of tap water samples exceed this level
COPPER CYANIDE	000544-92-3									50	180				
COUMARIN	000091-64-5						3								
CRESOL, META-	000108-39-4				C					500	1,800				
CRESOL, ORTHO-	000095-48-7				C					500	1,800				
CRESOL, PARA-	000106-44-5				C										
CRESOLS	001319-77-3	1,000	3,500					1,000	3,500						
CUMENE	000098-82-8				CN		2B			1,000	3,500				
CYANAZINE	021725-46-2											1			
CYANIDE	000057-12-5				D					6	21				
CYANIDE, SODIUM	000143-33-9							500	1,800	10	35		200	200	
CYANOGEN	000460-19-5									10	35				
CYANOGEN CHLORIDE	000506-77-4									500	1,800				
CYCLOHEXANE	000110-82-7				DI										

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2					Hierarchy Level 3		COMMENTS
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)	MCLG (ppb)	
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult				
CYCLOHEXANONE	000108-94-1						3			50,000	180,000				
CYFLUTHRIN	068359-37-5									250	880				
CYHALOTHRIN	068085-85-8							100	350	50	180				
CYPERMETHRIN	052315-07-8									100	350				
2,4-D ACID	000094-75-7									100	350		70	70	
DACTHAL	001861-32-1									100	350	70			
DDD, P,P'-	000072-54-8			0.15	B2		2B								
DDE, P,P'-	000072-55-9			0.1	B2		2B								
DDT, P,P'-	000050-29-3			0.1	B2	2	2B	5	18	5	18				
DECA-BROMODIPHENYL ETHER	001163-19-5			50	SU		3	100,000	350,000	70	250				
DEMETON	008065-48-3									0.4	1.4				
DI(2-ETHYLHEXYL)PHTHALATE	000117-81-7	600	2,100	2.5	B2	2		1,000	3,500	200	700		6	0	EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.
DI-N-BUTYL PHTHALATE	000084-74-2				D					1,000	3,500				EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.
DI-N-OCTYL PHTHALATE	000117-84-0							4,000	14,000						
2,4-DIAMINOTOLUENE	000095-80-7					2	2B								
DIAZINON	000333-41-5	7	25				1	20	70			1			
DIBENZO(A,E)PYRENE	000192-65-4						2	3							
DIBENZO(A,H)ANTHRACENE	000053-70-3				B2	2	2A								
DIBENZO(A,L)PYRENE	000191-30-0					2	2A								
1,2-DIBROMO-3-CHLOROPROPANE	000096-12-8					2	2B	20	70				0.2	0	
DIBROMOACETIC ACID	000631-64-1												60		MCL is for total of 5 haloacetic acids (monochloroacetic acid, dichloroacetic acid, trichloroacetic acid, bromoacetic acid, & dibromoacetic acid).
1,4-DIBROMOBENZENE	000106-37-6									100	350				
DIBROMOCHLOROMETHANE	000124-48-1	900	3,200	0.42	C		3			200	700	60	80	60	MCL is for total trihalomethanes (chloroform + bromodichloromethane + dibromochloromethane + bromoform).
1,2-DIBROMOETHANE	000106-93-4			0.018	LI	2	2A			90	320		0.05	0	
DIBUTYL TIN DICHLORIDE	000683-18-1							50	180						
DICAMBA	001918-00-9						1			300	1,100	4,000			
DICHLOROACETIC ACID	000079-43-6			0.7	LI		2B			40	140		60	0	MCL is for total of 5 haloacetic acids (monochloroacetic acid, dichloroacetic acid, trichloroacetic acid, bromoacetic acid, & dibromoacetic acid). MCLG is for individual compound.
1,2-DICHLOROBENZENE	000095-50-1	3,000	11,000		D		3	6,000	21,000	900	3,200	600	600	600	EPA Re-Assessment Underway FY13. See EPA IRIS website for more information.
1,4-DICHLOROBENZENE	000106-46-7	700	2,500			2	2B	700	2,500			75	75	75	EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.
1,3-DICHLOROBENZENE	000541-73-1				D		3	200	700			600			EPA Re-Assessment Underway FY13. See EPA IRIS website for more information.
3,3'-DICHLOROBENZIDINE	000091-94-1			0.078	B2	2	2B								

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2				Hierarchy Level 3			COMMENTS
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)	MCLG (ppb)	
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult				
DICHLORODIFLUOROMETHANE	000075-71-8									2,000	7,000	1,000			
1,1-DICHLOROETHANE	000075-34-3				C										
1,2-DICHLOROETHANE	000107-06-2			0.38	B2	2	2B	2,000	7,000				5	0	
1,1-DICHLOROETHENE	000075-35-4	90	320		NS		3			500	1,800	400	7	7	
1,2-DICHLOROETHENE, CIS-	000156-59-2				IN			3,000	11,000	20	70	10	70	70	
1,2-DICHLOROETHENE, TRANS-	000156-60-5				IN			2,000	7,000	200	700	100	100	100	
2,4-DICHLOROPHENOL	000120-83-2							30	110	30	110	20			
4-(2,4-DICHLOROPHENOXY)BUTYRIC ACID	000094-82-6									80	280				
1,2-DICHLOROPROPANE	000078-87-5	900	3,200				3	700	2,500				5	0	
2,3-DICHLOROPROPANOL	000616-23-9									30	110				
1,3-DICHLOROPROPENE	000542-75-6	300	1,100	0.35	KL	2	2B	400	1,400	300	1,100				
2,3-DICHLOROPROPENE	000078-88-6														
2,2-DICHLOROPROPIONIC ACID	000075-99-0									300	1,100	200	200	200	
DICHLORVOS	000062-73-7	5	18	0.12	B2		2B	30	110	5	18				
DICOFOL	000115-32-2						3								
DICROTOPHOS	000141-66-2									1	3.5				
DIELDRIN	000060-57-1	0.5	1.8	0.0022	B2		3	1	3.5	0.5	1.8				
DIETHANOLAMINE	000111-42-2						3								
DIETHYL PHTHALATE	000084-66-2				D			60,000	210,000	8,000	28,000				
DIFENZOQUAT	043222-48-6									800	2,800				
DIFLUBENZURON	035367-38-5									200	700				
1,1-DIFLUOROETHANE	000075-37-6														
DIISOPROPYL METHYLPHOSPHONATE	001445-75-6	6,000	21,000		D			8,000	28,000	800	2,800	600			
DIMETHOATE	000060-51-5									2	7				
3,3'-DIMETHOXYBENZIDINE	000119-90-4					2	2B								
DIMETHYL CARBAMYL CHLORIDE	000079-44-7					2	2A								
DIMETHYL FORMAMIDE	000068-12-2						3								
DIMETHYL METHYLPHOSPHONATE	000756-79-6				C							100			
1,4-DIMETHYL PHTHALATE	000120-61-6									1,000	3,500				
DIMETHYL PHTHALATE	000131-11-3				D										
DIMETHYL SULFATE	000077-78-1				B2	2	2A								
DIMETHYLANILINE	000121-69-7						3			20	70				
DIMETHYLARSINIC ACID	000075-60-5	200	700		D		2B								
1,1-DIMETHYLHYDRAZINE	000057-14-7					2	2B								
1,2-DIMETHYLHYDRAZINE	000540-73-8						2A	8	28						
2,6-DIMETHYLPHENOL	000576-26-1									6	21				
2,4-DIMETHYLPHENOL	000105-67-9									200	700				
4,6-DINITRO-O-CRESOL	000534-52-1							40	140						

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2				Hierarchy Level 3			COMMENTS
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)	MCLG (ppb)	
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult				
4,6-DINITRO-O-CYCLOHEXYL PHENOL	000131-89-5									20	70				
1,3-DINITROBENZENE	000099-65-0				D			1	5	18	1	3.5	1		
2,4-DINITROPHENOL	000051-28-5										20	70			
2,4-DINITROTOLUENE	000121-14-2	20	70					2B			20	70			
2,6-DINITROTOLUENE	000606-20-2							2B	40	140					
DINITROTOLUENE	025321-14-6			0.051	B2										
DINOSEB	000088-85-7				D						10	35	7	7	7
1,4-DIOXANE	000123-91-1	1,000	3,500	0.35	LC	2	2B	5,000	18,000		300	1,100	200		
DIPHENAMID	000957-51-7										300	1,100	200		
DIPHENYLAMINE	000122-39-4										250	880			
1,2-DIPHENYLHYDRAZINE	000122-66-7			0.044	B2	2									
DIPHENYLMETHANE DIISOCYANATE	000101-68-8				CN		3								
DIQUAT	002764-72-9										22	77		20	20
DISODIUM ARSENATE	007778-43-0					1	1								
DISULFOTON	000298-04-4	0.6	2.1					0.9	3.2	0.4	1.4	0.7			
1,4-DITHIANE	000505-29-3				D						100	350	80		
DIURON	000330-54-1										20	70			
ENDOSULFAN	000115-29-7	20	70					50	180		60	210			
ENDOTHALL	000145-73-3										200	700	50	100	100
ENDRIN	000072-20-8	3	11		D		3	20	70		3	11	2	2	2
EPICHLOROHYDRIN	000106-89-8			3.5	B2	2	2A								0
EPN	002104-64-5										0.1	0.35			
1,2-EPOXYBUTANE	000106-88-7						2B								
EPTC	000759-94-4										250	880			
ETHEPHON	016672-87-0										50	180			
ETHION	000563-12-2	4	14					20	70		5	18			
ETHYL ACETATE	000141-78-6										9,000	32,000			
ETHYL ACRYLATE	000140-88-5						2B								
ETHYL ETHER	000060-29-7										2,000	7,000			
ETHYLBENZENE	000100-41-4				D		2B	4,000	14,000	1,000	3,500	700	700	700	
ETHYLENE GLYCOL	000107-21-1							8,000	28,000	20,000	70,000	14,000			
ETHYLENE OXIDE	000075-21-8					1	1								
FENAMIPHOS	022224-92-6										2.5	8.8	0.7		
FENVALERATE	051630-58-1						3				250	880			
FIBROUS GLASS AND MINERAL WOOL	HZ0900-22-T					2									
FLUOMETURON	002164-17-2						3				130	460	90		
FLUORANTHENE	000206-44-0				D		3	4,000	14,000	400	1,400				
FLUORENE	000086-73-7				D		3	4,000	14,000	400	1,400				

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2					Hierarchy Level 3			COMMENTS
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)	MCLG (ppb)		
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult					
FLUORINE	007782-41-4									600	2,100					
FLUSILAZOLE	085509-19-9									7	25					
FOLPET	000133-07-3			10	B2					1,000	3,500					
FONOPHOS	000944-22-9									20	70	10				
FORMALDEHYDE	000050-00-0	2,000	7,000		B1	1	1	3,000	11,000	2,000	7,000	1,000			EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.	
FUEL OIL NO. 2	068476-30-2						3								IARC cancer class value is for fuel oils, distillate (light).	
FUEL RELATED ORGANICS	HZ0600-47-T				LI											
FURAN	000110-00-9					2	2B			10	35					
FURFURAL	000098-01-1						3			30	110					
GAMMA RADIATION	HZ1800-03-T					1	1									
GLYCIDYLALDEHYDE	000765-34-4				B2		2B			4	14					
GLYPHOSATE	001071-83-6				D					1,000	3,500		700	700		
HEPTACHLOR	000076-44-8			0.0078	B2		2B	1	3.5	5	18		0.4	0		
HEPTACHLOR EPOXIDE	001024-57-3			0.0038	B2					0.13	0.46		0.2	0		
HEXABROMOBENZENE	000087-82-1									20	70					
HEXACHLOROBENZENE	000118-74-1	0.5	1.8	0.022	B2	2	2B	1	3.5	8	28		1	0		
HEXACHLOROBUTADIENE	000087-68-3			0.45	C		3	2	7						EPA Re-Assessment Underway FY13/14. See EPA IRIS website for more information.	
HEXACHLOROCYCLOHEXANE, ALPHA-	000319-84-6	80	280	0.0056	B2	2	2B									
HEXACHLOROCYCLOHEXANE, BETA-	000319-85-7			0.019	C	2	2B	6	21							
HEXACHLOROCYCLOHEXANE, GAMMA-	000058-89-9					2	2B	0.1	0.35	3	11		0.2	0.2		
HEXACHLOROCYCLOHEXANE, TECHNICAL GRADE	000608-73-1			0.019	B2	2	2B									
HEXACHLOROCYCLOPENTADIENE	000077-47-4				NO			1,000	3,500	60	210		50	50		
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	019408-74-3			5.6E-06	B2		3									
HEXACHLOROETHANE	000067-72-1			0.88	LC	2	2B	100	350	7	25	1				
HEXACHLOROPHENE	000070-30-4						3			3	11					
HEXAMETHYL PHOSPHORAMIDE	000680-31-9					2	2B									
HEXAMETHYLENE DIISOCYANATE	000822-06-0															
HEXANE, N-	000110-54-3				IN											
2-HEXANONE	000591-78-6				IN					50	180					
HMX (CYCLOTETRAMETHYLENE TETRANITRAMINE)	002691-41-0				D			500	1,800	500	1,800	400				
HYDRAZINE	000302-01-2			0.012	B2	2	2B									
HYDROCHLORIC ACID	007647-01-0						3									
HYDROGEN CYANIDE	000074-90-8				IN					6	21					
HYDROGEN FLUORIDE	007664-39-3															
HYDROGEN SULFIDE	007783-06-4				DI											

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2					Hierarchy Level 3			COMMENTS
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)	MCLG (ppb)		
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult					
HYPOCHLORITE	014380-61-1						3									
INDENO(1,2,3-CD)PYRENE	000193-39-5				B2	2	2B									
IODINE	007553-56-2	100	350													MRLs/EMEGs are based on administered doses of sodium and potassium iodide.
IODINE-131	010043-66-0						1									
ISOBUTYL ALCOHOL	000078-83-1									3,000	11,000					
ISOPHORONE	000078-59-1	2,000	7,000	37	C			30,000	110,000	2,000	7,000	100				
ISOPROPYL METHYL PHOSPHONATE	005514-35-2											700				
ISOPROPYL PHENYLCARBAMATE	000122-42-9						3			200	700	100				
JP-4	050815-00-4															
JP-5/JP-8	HZ0600-25-T															
JP-7	HZ0600-22-T						3									
KEROSENE	008008-20-6						3									IARC cancer class value is for fuel oils, distillate (light).
LEAD	007439-92-1				B2	2	2B							0		MCL action level = 15 ppb; action must be taken if more than 10% of tap water samples exceed this value.
LEAD ACETATE	000301-04-2					2	2A									
LEAD PHOSPHATE	007446-27-7					2	2A									
M-PHENYLENEDIAMINE	000108-45-2						3			60	210					
M-XYLENE	000108-38-3															Refer to MRLs and Comparison Values for total xylenes (CASRN 1330-20-7).
MALATHION	000121-75-5	200	700				3	200	700	200	700	500				
MALEIC ANHYDRIDE	000108-31-6									1,000	3,500					
MANEB	012427-38-2						3			50	180					
MANGANESE	007439-96-5				D					500	1,800	300				RMEG calculated for environmental exposures, not food or total intake.
MEPIQUAT CHLORIDE	024307-26-4									300	1,100					
MERCURIC CHLORIDE	007487-94-7				C		3	20	70	3	11	2	2	2		The LTHA, MCL, and MCLG values are listed for inorganic mercury.
MERCURY	007439-97-6				D		3									
MERPHOS	000150-50-5									0.3	1.1					
METHACRYLONITRILE	000126-98-7									1	3.5					
METHAMIDOPHOS	010265-92-6									0.5	1.8					
METHANOL	000067-56-1									5,000	18,000					EPA Re-Assessment Underway FY13. See EPA IRIS website for more information.
METHIDATHION	000950-37-8				C					10	35					
METHOMYL	016752-77-5									250	880	200				
1-METHOXY-2-PROPANOL	000107-98-2															
METHOXYCHLOR	000072-43-5				D		3	50	180	50	180	40	40	40		
METHOXYETHANOL	000109-86-4															
METHYL ISOBUTYL KETONE	000108-10-1				DI											

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2					Hierarchy Level 3			COMMENTS
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)	MCLG (ppb)		
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult					
METHYL METHACRYLATE	000080-62-6				NO		3			14,000	49,000					
METHYL PARATHION	000298-00-0	3	11				3	7	25	2.5	8.8	1				
4-(2-METHYL-4-CHLOROPHENOXY) BUTYRIC ACID	000094-81-5									100	350					
2-METHYL-4-CHLOROPHENOXYACETIC ACID	000094-74-6									5	18	30				
METHYL-T-BUTYL ETHER	001634-04-4						3	3,000	11,000							
2-METHYLAZIRIDINE	000075-55-8					2	2B									
5-METHYLCHRYSENE	003697-24-3					2	2B									
METHYLENE CHLORIDE	000075-09-2	600	2,100	18	LC	2	2B			60	210	200	5	0		
4,4'-METHYLENEBIS(2-CHLOROANILINE)	000101-14-4	30	110			2	1									
4,4'-METHYLENEDIANILINE	000101-77-9					2	2B	800	2,800							
4,4'-(1-METHYLETHYLIDENE)BIS-PHENOL	000080-05-7									500	1,800					
METHYLMERCURY	022967-92-6	3	11		C		2B			1	3.5					
1-METHYLNAPHTHALENE	000090-12-0	700	2,500													
2-METHYLNAPHTHALENE	000091-57-6	400	1,400		DI					40	140					
METOLACHLOR	051218-45-2				C					1,500	5,300	700				
METRIBUZIN	021087-64-9				D					250	880	70				
MIREX	002385-85-5	8	28			2	2B			2	7					
MOLINATE	002212-67-1									20	70					
MOLYBDENUM	007439-98-7									50	180	40				
MONOCHLORAMINE	010599-90-3				D		3			1,000	3,500	3,000	4,000	4,000	MCL and MCLG are actually Maximum Residual Disinfectant Levels and Maximum Residual Disinfectant Levels (MRDL and MRDLG), similar to MCL/MCLG. The values are measured as free chlorine.	
MONOMETHYLARSONIC ACID	000124-58-3	100	350				2B	1,000	3,500							
N-NITROSO-N-METHYLURETHANE	000615-53-2						2B									
N-NITROSODI-N-PROPYLAMINE	000621-64-7			0.005	B2	2	2B									
N-NITROSODIETHYLAMINE	000055-18-5			0.00023	B2	2	2A									
N-NITROSODIMETHYLAMINE	000062-75-9			0.00069	B2	2	2A									
N-NITROSODIPHENYLAMINE	000086-30-6			7.1	B2		3									
NALED	000300-76-5									20	70					
NAPHTHALENE	000091-20-3				CN	2	2B	6,000	21,000	200	700	100			An updated literature search (dated Dec 2010) is available on the EPA IRIS website.	
NICKEL	007440-02-0					2	2B			200	700	100				
NICKEL SUBSULFIDE	012035-72-2				A	1	1									
NITRATE	014797-55-8									16,000	56,000		10,000	10,000	The drinking water RMEG is not protective of infants. Use the MCLG.	
NITRATE AND NITRITE	HZ2100-10-T						2A						10,000	10,000		
NITRILOTRIACETIC ACID	000139-13-9					2	2B									

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2				Hierarchy Level 3		COMMENTS	
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)		MCLG (ppb)
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult				
NITRITE	014797-65-0									1,000	3,500		1,000	1,000	
NITROBENZENE	000098-95-3				LC			2B			20	70			
NITROGLYCERINE	000055-63-0											5			
NITROGUANIDINE	000556-88-7				D					1,000	3,500	700			
4-NITROPHENOL	000100-02-7											60			
2-NITROPROPANE	000079-46-9					2		2B							
NITROSOMORPHOLINE	000059-89-2					2		2B							
2-NITROTOLUENE	000088-72-2					2									
OCTABROMODIPHENYL ETHER	032536-52-0				D					30	110				This is a type of PBDE. Refer to the MRLs listed under CAS# 032534-81-9, (PBDEs, lower brominated).
ORYZALIN	019044-88-3				C					500	1,800				
OXADIAZON	019666-30-9									50	180				
OXAMYL	023135-22-0									250	880		200	200	
OXYFLUORFEN	042874-03-3									30	110				
P-CHLOROTOLUENE	000106-43-4				D							100			
P-XYLENE	000106-42-3														Refer to MRLs and Comparison Values for total xylenes (CASRN 1330-20-7).
PARAQUAT DICHLORIDE	001910-42-5				C					45	160	30			
PARATHION	000056-38-2				C			3							
PENDIMETHALIN	040487-42-1									400	1,400				
PENTACHLOROBENZENE	000608-93-5				D					8	28				
2,3,4,7,8-PENTACHLORODIBENZOFURAN	057117-31-4							1	0.0003	0.0011					
PENTACHLORONITROBENZENE	000082-68-8							3		30	110				
PENTACHLOROPHENOL	000087-86-5	10	35	0.088	LC			2B	10	35	50	180	40	1	0
PERCHLORATE	014797-73-0	7	25		NL					7	25	15			
PERMETHRIN	052645-53-1							3	2,000	7,000	500	1,800			
PHENANTHRENE	000085-01-8				D			3							
PHENOL	000108-95-2				DI			3		3,000	11,000	2,000			
PHENYLMERCURIC ACETATE	000062-38-4									0.8	2.8				
PHOSGENE	000075-44-5				IN										
PHOSPHINE	007803-51-2				D					3	11				
PHOSPHORIC ACID	007664-38-2														
PHOSPHORUS, WHITE	007723-14-0				D				2	7	0.2	0.7	0.1		
PHOSPHORUS-32	014596-37-3							1							
PTHALIC ANHYDRIDE	000085-44-9									20,000	70,000				
PLUTONIUM-239	015117-48-3							1							
POLYBROMINATED BIPHENYLS	067774-32-7					2		2B							MRL based on hexa-bromobiphenyl mixture; considered protective for all PBBs.

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2				Hierarchy Level 3		COMMENTS	
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)		MCLG (ppb)
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult				
POLYBROMINATED DIPHENYL ETHERS	032534-81-9				D			70	250	20	70				These MRLs also include octa-BDE, CAS #: 32536-52-0. See PBB/PBDE Tox Profile for discussion.
POLYCHLORINATED BIPHENYLS	001336-36-3			0.018	B2	2	2A						0.5	0	EPA Re-Assessment Underway FY13. See EPA IRIS website for more information. Oral CSF is the upper bound slope factor for high risk, high persistence PCBs. Also see CVs:Aroclor 1016 and 1254, commercial PCBs.
POLYMETHYLENE POLYPHENYLISOCYANATE	009016-87-9				CN		3								
POTASSIUM CYANIDE	000151-50-8									20	70				
POTASSIUM SILVER CYANIDE	000506-61-6									50	180				
PROMETON	001610-18-0									150	530	400			
PROMETRYN	007287-19-6									40	140				
PRONAMIDE	023950-58-5									750	2,600				
PROPACHLOR	001918-16-7									130	460				
PROPANIL	000709-98-8									50	180				
PROPARGITE	002312-35-8									200	700				
PROPAZINE	000139-40-2									200	700	10			
PROPOXUR	000114-26-1									40	140	3			
PROPYLENE GLYCOL	000057-55-6														
PROPYLENE GLYCOL DINITRATE	006423-43-4														
PROPYLENE OXIDE	000075-56-9			0.15	B2	2	2B								
PURSUIT	081335-77-5									2,500	8,800				
PYRENE	000129-00-0				D		3			300	1,100				
PYRIDINE	000110-86-1						3			10	35				
RADIUM	007440-14-4						1						5	0	Units for MCL are picocuries per liter (pCi/L)- radium (tot)226 & 228.
RADIUM-224 AND DAUGHTERS	HZ1800-60-T						1								
RADIUM-226 AND DAUGHTERS	HZ1800-61-T						1								
RADIUM-226/228	HZ1800-20-T						1						5	0	MCL units are pCi/L
RADIUM-228 AND DAUGHTERS	HZ1800-62-T						1								
RADON	010043-92-2					1	1						300	0	Units are picocuries per liter (pCi/l). DWHA lists an alternative MCL for radon of 4000.0 pCi/L.
RDX (Cyclonite)	000121-82-4	1,000	3,500	0.32	C			1,000	3,500	30	110	2			
REFRACTORY CERAMIC FIBERS	HZ0900-25-T				B2	2	2B								See Synthetic Vitreous Fibers Toxicological Profile for more info.
RESMETHRIN	010453-86-8									300	1,100				
ROTENONE	000083-79-4									40	140				
S,S,S-TRIBUTYL PHOSPHOROTRITHIOATE	000078-48-8									0.3	1.1				
SELENIOS ACID	007783-00-8				D		3			50	180				
SELENIUM	007782-49-2	50	180		D		3			50	180	50	50	50	
SELENIUM SULFIDE	007446-34-6				B2	2	3								

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2				Hierarchy Level 3			COMMENTS	
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)	MCLG (ppb)		
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult					
SILICA, AMORPHOUS	007631-86-9						1	3								
SILVER	007440-22-4				D						50	180	100			
SILVER CYANIDE	000506-64-9										1,000	3,500				
SIMAZINE	000122-34-9							3			50	180		4	4	
SODIUM AZIDE	026628-22-8										40	140				
SODIUM BROMATE	007789-38-0													10	0	
SODIUM DIETHYLDITHIOCARBAMATE	000148-18-5							3			300	1,100				
SODIUM FLUORIDE	007681-49-4	500	1,800					3						4,000	4,000	
SODIUM FLUOROACETATE	000062-74-8										0.2	0.7				
STRONTIUM	007440-24-6								20,000	70,000	6,000	21,000	4,000			
STRONTIUM CHROMATE(VI)	007789-06-2						1	1								IARC cancer class is for chromium and chromium compounds.
STRYCHNINE	000057-24-9										3	11				
STYRENE	000100-42-5						2	2B			2,000	7,000	100	100	100	
SULFOTEP	003689-24-5										5	18				
SULFUR DIOXIDE	007446-09-5							3								
SULFUR MUSTARD	000505-60-2						1	1	0.7	2.5						
2,4,5-T	000093-76-5										100	350	70			
TEBUTHIURON	034014-18-1										700	2,500	500			
TERBACIL	005902-51-2										130	460	90			
TERBUFOS	013071-79-9												0.4			
TERBUTRYN	000886-50-0										10	35				
1,2,4,5-TETRACHLOROBENZENE	000095-94-3										3	11				
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	001746-01-6	1E-05	3.5E-05				1	1	0.0002	0.0007	7E-06	2.5E-05		3E-05	0	EPA Cancer Re-Assessment currently underway. See EPA IRIS website for more information.
1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN	030746-58-8							3								
1,1,1,2-TETRACHLOROETHANE	000630-20-6			1.3	C			3			300	1,100	70			
1,1,2,2-TETRACHLOROETHANE	000079-34-5			0.18	LC			3	5,000	18,000	200	700				
TETRACHLOROETHYLENE	000127-18-4			17	LC		2	2A			60	210	10	5	0	
2,3,4,6-TETRACHLOROPHENOL	000058-90-2										300	1,100				
TETRAETHYL LEAD	000078-00-2							3			0.001	0.0035				
1,1,1,2-TETRAFLUOROETHANE	000811-97-2															
TETRAHYDROFURAN	000109-99-9				SU						9,000	32,000				
THALLIUM	007440-28-0													2	0.5	
THALLIUM ACETATE	000563-68-8				IN											
THALLIUM CARBONATE	006533-73-9				IN											
THALLIUM NITRATE	010102-45-1				IN											
THALLIUM SULFATE	007446-18-6				IN											
THIOACETAMIDE	000062-55-5						2	2B								
THIOBENCARB	028249-77-6										100	350				

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2				Hierarchy Level 3			COMMENTS
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)	MCLG (ppb)	
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult				
THIOUREA	000062-56-6					2	3								
THIRAM	000137-26-8						3			50	180				
THORIUM	007440-29-1						1								IARC cancer class is for Thorium-232.
TIN	007440-31-5							3,000	11,000						
TITANIUM TETRACHLORIDE	007550-45-0														
TOLUENE	000108-88-3				IN		3	200	700	800	2,800		1,000	1,000	
TOLUENE DIISOCYANATE (N.O.S)	026471-62-5					2	2B								
TOXAPHENE	008001-35-2			0.032	B2	2	2B	20	70				3	0	
2,4,5-TP ACID	000093-72-1				D					80	280	50	50	50	
1,2,4-TRIBROMOBENZENE	000615-54-3									50	180				
TRIBUTYL PHOSPHATE (TnBP)	000126-73-8	800	2,800					800	2,800						
TRIBUTYLtin OXIDE	000056-35-9	3	11		CN			3	11	3	11				
1,1,2-TRICHLORO- 1,2,2-TRIFLUOROETHANE	000076-13-1									300,000	1,100,000				
TRICHLOROACETIC ACID	000076-03-9			0.5	SU		3			200	700	20	60	20	
1,3,5-TRICHLOROBENZENE	000108-70-3											40			
1,2,4-TRICHLOROBENZENE	000120-82-1	1,000	3,500		D			1,000	3,500	100	350	70	70	70	
1,1,1-TRICHLOROETHANE	000071-55-6				IN		3	200,000	700,000	20,000	70,000		200	200	
1,1,2-TRICHLOROETHANE	000079-00-5			0.61	C		3	400	1,400	40	140	3	5	3	
TRICHLOROETHYLENE	000079-01-6	5	18	0.76	CH	2	2A			5	18		5	0	
TRICHLOROFLUOROMETHANE	000075-69-4									3,000	11,000	2,000			
(TRICHLOROMETHYL)BENZENE	000098-07-7			0.0027	B2	2	2A								
2,4,5-TRICHLOROPHENOL	000095-95-4									1,000	3,500				
2,4,6-TRICHLOROPHENOL	000088-06-2			3.2	B2	2									
1,2,3-TRICHLOROPROPANE	000096-18-4			0.0012	LC	2	2A	800	2,800	40	140				
1,1,2-TRICHLOROPROPANE	000598-77-6									50	180				
TRICRESYL PHOSPHATE (TCP)	001330-78-5	200	700					400	1,400						
TRIETHANOLAMINE	000102-71-6						3								
TRIETHYLAMINE	000121-44-8														
TRIFLURALIN	001582-09-8			4.5	C		3			75	260	10			
1,3,5-TRINITROBENZENE	000099-35-4									300	1,100				
2,4,6-TRINITROTOLUENE	000118-96-7			1.2	C		3	5	18	5	18	2			
TRIS(2-BUTOXYETHYL) PHOSPHATE (TBEP)	000078-51-3							900	3,200						
TRIS(1,3-DICHLORO-2-PROPYL) PHOSPHATE	013674-87-8	200	700				3	500	1,800						
TRIS(2,3-DIBROMOPROPYL)PHOSPHATE	000126-72-7					2	2A								
TRIS(2-CHLOROETHYL) PHOSPHATE (TCEP)	000115-96-8	2,000	7,000				3	6,000	21,000						

SUBSTANCE NAME	CAS ID	Hierarchy Level 1						Hierarchy Level 2				Hierarchy Level 3		COMMENTS	
		Chronic EMEG (ppb)		CREG (ppb)	Cancer Class			Intermediate EMEG (ppb)		RMEG (ppb)		LTHA (ppb)	MCL (ppb)		MCLG (ppb)
		Child	Adult		EPA	DHHS (NTP)	IARC	Child	Adult	Child	Adult				
URANIUM	007440-61-1												30	0	
URANIUM, INSOLUBLE COMPOUNDS	HZ1800-92-T														
URANIUM, MODERATELY SOLUBLE SALTS	HZ1800-91-T														
URANIUM, SOLUBLE SALTS	HZ1800-93-T							2	7	30	110				
URETHANE, SOLIDIFIED	000051-79-6					2	2A								
VANADIUM	007440-62-2							100	350						
VANADIUM PENTOXIDE	001314-62-1						2B			90	320				Under EPA Re-Assessment FY13. See EPA IRIS website for more information.
VERNOLATE	001929-77-7									10	35				
VINCLOZOLIN	050471-44-8									250	880				
VINYL ACETATE	000108-05-4						2B								
VINYL BROMIDE	000593-60-2					2	2A								
VINYL CHLORIDE	000075-01-4	30	110	0.025	KL	1	1			30	110		2	0	Oral CSF and IUR are based on continuous lifetime exposures since birth. See EPA IRIS website for more information.
WARFARIN	000081-81-2									3	11				
XYLENES, TOTAL	001330-20-7	2,000	7,000		DI		3	4,000	14,000	2,000	7,000		10,000	10,000	
3,4-XYLENOL	000095-65-8									10	35				
ZINC	007440-66-6	3,000	11,000		IN			3,000	11,000	3,000	11,000	2,000			
ZINC CYANIDE	000557-21-1									500	1,800				
ZINEB	012122-67-7						3			500	1,800				